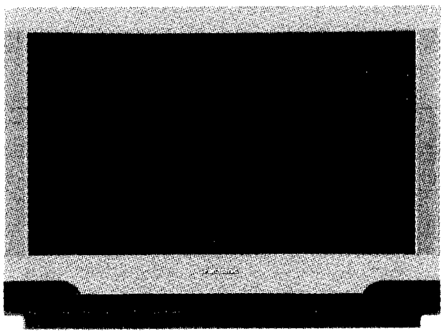
Service Manual



Colour Television

TX-36PF10F
TX-32PF10F

EURO - 5 Chassis

SPECIFICATIONS

(Information in brackets { } refer to TX-32PF10F)

Power Source:	220-240V a.c., 50Hz	
Power Consumption:	162W {155W}	
Aerial Impedance:	75Ω unbalanced, Coaxial Type	
Standby Power Consumption:	1,9W	
Receiving System:	PAL-I, B/G, H, D/K, PAL-525/60 SECAM L/L', B/G, D/K M.NTSC NTSC (AV only)	
Receiving Channels:		
VHF E2-E12	VHF H1-H2 (ITALY)	
VHF A-H (ITALY)	VHF R1-R2	
VHF R3-R5	VHF R6-R12	
UHF E21-E69	CATV (S01-S05)	
CATV S1-S10 (M1-M10)	CATV S11-S20 (U1-U10)	
CATV S21-S41 (HYPERBAND)		
Intermediate Frequency:		
Video	38,9MHz, 34MHz	
Sound	32,9MHz, 33,4MHz, 33,16MHz 32,4MHz, 40,4MHz, 33,05MHz 32,66MHz	
Colour	34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)	
Video/Audio Terminals:		
AUDIO MONITOR OUT	Audio (RCAx2)	500mV rms1kΩ
AV1 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	
AV1 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV2 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω
	(21 pin)	C: 0.3V p-p 75Ω
AV2 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
	Selectable Output (21 pin)	
AV3 IN	S-Video IN	Y: 1V p-p 75Ω
	(4-pin)	C: 0,3V p-p 75Ω
	Audio (RCAx2)	500mV rms10kΩ
	Video (RCAx1)	1V p-p 75Ω
AV4 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω
	(21 pin)	C: 0.3V p-p 75Ω
AV4 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
High Voltage:	32kV ±1kV	
Picture Tube:	W86LPX555X05	{W76LPX555X05}
Audio Output:	2 x 20W	Left/Right
	2 x 14W	Centre
(Music Power)	8Ω Impedance	
Headphones	8Ω Impedance	
Accessories supplied:	Remote Control 2 x R6 (UM3) Batteries	
Dimensions:		
Height:	637mm	{576mm}
Width:	874mm	{777mm}
Depth:	588mm	{537mm}
Net Weight:	33kg	{28kg}

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-5 technical guide.

TECHNISCHE DATEN

(Werte in klammern gelten { } nur fur TX- 32PF10F)

Netzpannung:	220-240V a.c., 50Hz	
Leistungsaufnahme:	162W {155W}	
Antennenimpedanz:	75Ω asymmetrisch, Koaxial-Typ	
Standby Leistungsaufnahme:	1,9W	
Empfangssystem:	PAL-I, B/G, H, D/K, PAL-525/60 SECAM L/L', B/G, D/K M.NTSC NTSC (nur AV Eingang)	
Empfangsbereiche:		
VHF E2-E12	VHF H1-H2 (ITALY)	
VHF A-H (ITALY)	VHF R1-R2	
VHF R3-R5	VHF R6-R12	
UHF E21-E69	CATV (S01-S05)	
CATV S1-S10 (M1-M10)	CATV S11-S20 (U1-U10)	
CATV S21-S41 (HYPERBAND)		
Zwischenfrequenz:		
Video	38,9MHz, 34MHz	
Sound	32,9MHz, 33,4MHz, 33,16MHz 32,4MHz, 40,4MHz, 33,05MHz 32,66MHz	
Colour	34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)	
Video/Audio Anschlüsse:		
AUDIO MONITOR OUT	Audio (RCAx2)	500mV rms1kΩ
AV1 EINGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	
AV1 AUSGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV2 EINGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω
	(21 pin)	C: 0.3V p-p 75Ω
AV2 AUSGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
	Wählbarer Ausgang	
AV3 EINGANG	S-Video IN	Y: 1V p-p 75Ω
	(4-pin)	C: 0,3V p-p 75Ω
	Audio (RCAx2)	500mV rms10kΩ
	Video (RCAx1)	1V p-p 75Ω
AV4 EINGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN	Y: 1V p-p 75Ω
	(21 pin)	C: 0.3V p-p 75Ω
AV4 AUSGANG	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
Hochspannung:	32kV ±1kV	
Bildrohre:	W86LPX555X05	{W76LPX555X05}
Ton Ausgangsleistung:	2 x 20W	Links/Rechts
	2 x 14W	Zentraler
(Musikleistung)	8Ω Impedanz	
Kopfhörer:	8Ω Impedanz	
Mitgel. Zubehör:	Fernbedienung 2 x R6 (UM3) Batterien	
Abmessungen:		
Höhe:	637mm	{576mm}
Breite:	874mm	{777mm}
Tiefe:	588mm	{537mm}
Gewicht:	33kg	{28kg}

Änderungen der Technisichen Daten vorbehalten.
Gewichte und Abmessungen sind Näherungsangaben.

Hinweis: Bitte verwende Sie das Service Manual zusammen mit dem Technical Guide.

Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.

2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.

4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.

5. Potentials as high as 33kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.

6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.

2. Turn on the receiver's power switch.

3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

INHALT

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SICHERHEITSVORKEHRUNGEN

ALLGEMEINE RICHTLINIEN

1. Es ist empfehlenswert einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
2. Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden. Dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
3. Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations -R-C- Glieder wieder richtig eingesetzt sind.
4. Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
5. Im Betrieb sind Spannungen bis zu 33kV in diesem Gerät vorhanden. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher - Stromversorgung mit sich. Servicearbeiten solten daher auch nie durch Personen versucht werden, die nicht in vollem. Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildrohre immer an dem Empfängerchassis zu entladen.
6. Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

1. Den Netsztecker aus der Netzsteckdose ziehen und die beiden Steckerstifte kurzschließen.

2. Den Geräteschalter des Fernsehgerätes einschalten.

3. Mit einem Ohmmeter den Widerstandswert zwischen dem überbrückten Netzkabelsteckerund jendem zugänglichen Metallteil am Gehäuse des Fernsehgerätes, wie Schraubenköpfe, Antennen, Achsen der Regler, Griffassungen usw.messen. Wenn ein zugängliches Metallteil keine Rückleitung zum Chassis hat, Muß die Anzeige unendlich betrgen.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 V rms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

HOT CHECK CIRCUIT

SCHALTUNGSAUFBAU FÜR PRUFUNG IM EINGESCHALTETEN ZUSTAND

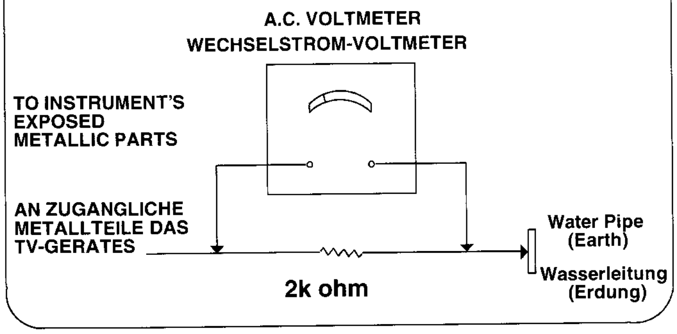


Fig.1.
Abb.1.

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 33kV without causing X-Radiation.

NOTE : It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 32kV± 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

1. Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
2. Einen 2kΩ / 10W-Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten, Erdung z.B Wasserleitung, anschließen.
3. Ein Wechselstrom-Voltmeter mit einem Meßbereich von 1000 Ohm.Volt oder größer verwenden, um die Spannung über den Widerstand zu messen.
4. Jedes zugängliche Metallteil prüfen, und an jedem Punkt dies Spannung messen.
5. Den Netztecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen.
6. Die Spannung darf an keinem der Punkte 1,4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefar eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

RÖNTGENSTRAHLUNG ACHTUNG :

1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
2. Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 33kV geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

ANMERKUNG : Es ist wichtig, daß ein präzises, regelmäßig geprüftes Voltmeter verwendet wird.

1. Helligkeit auf Minimum stellen.
2. Die Hochspannung messen. Die Anzeige des Instrumentes sollte 32kV± 1kV. Falls die Anziege diese Toleranzgrenzen überschreitet, ist die sofortige Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
3. Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, daß nur die vorgeschriebene Bildröhre verwendet wird.

SERVICE HINTS

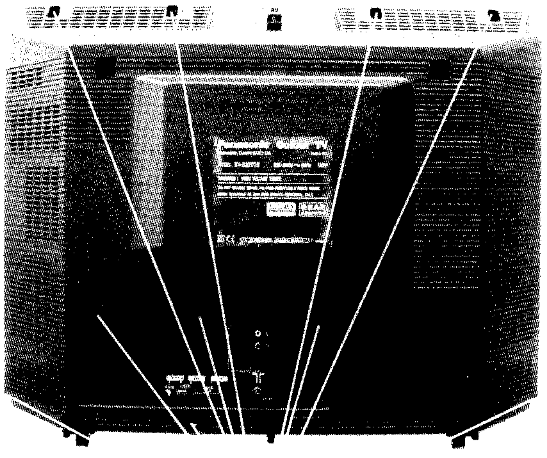
HOW TO REMOVE THE REAR COVER

1. Remove the 10 screws as shown in **Fig.2.**

SERVICE HINWEISE

ENTFERNEN DER GERÄTERÜCKWAND

1. Die 10 Schrauben entfernen, siehe **Abb.2.**



Screws
Schrauben
Fig.2.
Abb.2.

LOCATION OF CONTROLS

LAGE DER EINSTELLREGLER

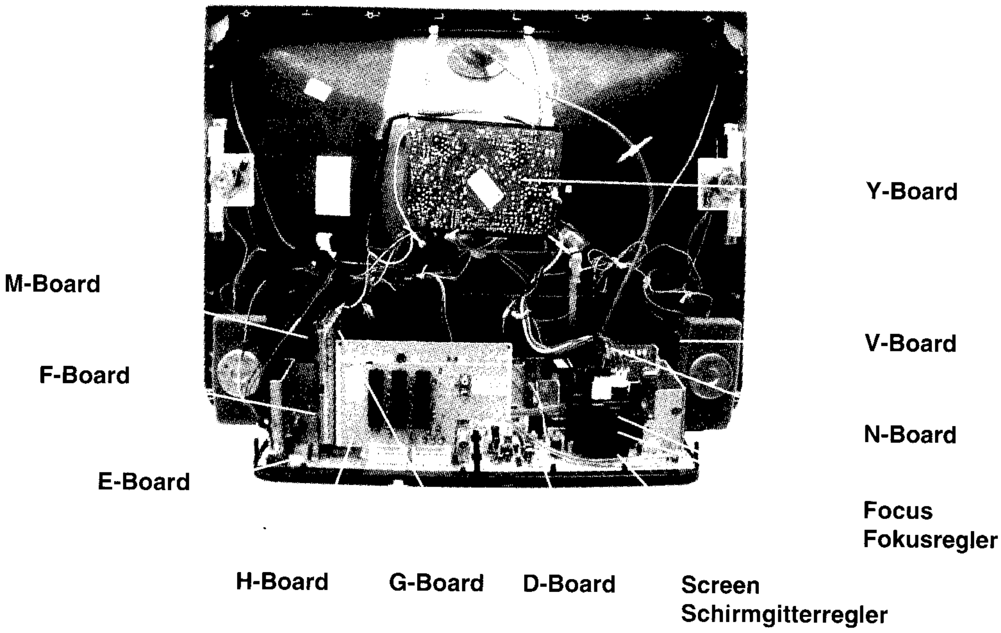

Y-Board
M-Board
V-Board
F-Board
N-Board
E-Board
Focus
Fokusregler
H-Board
G-Board
D-Board
Screen
Schirmgitterregler

Fig.3.
Abb.3.

How to move the chassis into Service position

1. Remove the bead clamper from the mains lead and affix, using back cover screw, into top right-hand cabinet rib **(A)**, shown in **Fig.4**.
2. Remove 2 screws **(B)**, as shown in **Fig.5**, and remove speaker assembly.
3. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.4**.
4. Release the respective wiring clips and rotate the chassis vertically through 90°, anti-clockwise.
5. Locate the base of the chassis frame into location **(C)**, shown in **Fig.6 / Fig.8**.
6. Clip the chassis frame onto the bead clamper, shown in **Fig.6 / Fig.7**.
7. After servicing replace the bead clamper and speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

Serviceposition für das Chassis

1. Entfernen Sie den Kabelbinder von der Netzleitung und befestigen Sie ihn mit einer Rückwandschraube am Gehäuse an der Position **(A)**. **(Fig.4.)**
2. Nach dem Lösen der zwei Schrauben **(B)** kann der rechte Lautsprecher **(Fig.5)** ausgebaut werden.
3. Das Chassis am hinteren Ende anheben und vorsichtig herausziehen **(Fig.4)**.
4. Die Kabelhalter werden gelöst und das Chassis gegen den Uhrzeigersinn um 90º gedreht.
5. Das untere Ende des Chassis wird in die Halterung **(C)** gesteckt **(Fig.6 / Fig.8)**.
6. Das obere Ende des Chassis wird in den Kabelbinder eingehängt **(Fig.6 / Fig.7)**.
7. Nach der Reparatur wird der Lautsprecher wieder eingebaut, der Kabelbinder entfernt und alle Kabelbäume auf die Originalposition in die Halterungen eingesetzt.

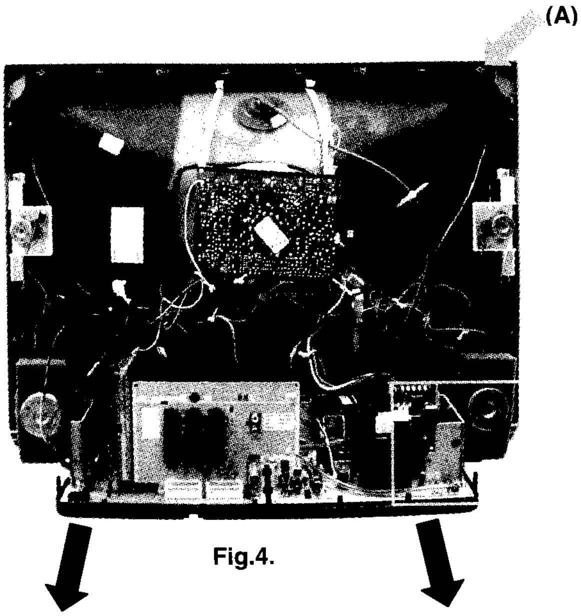


Fig.4.

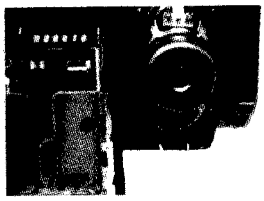


Fig.5.

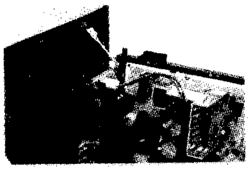


Fig.7.

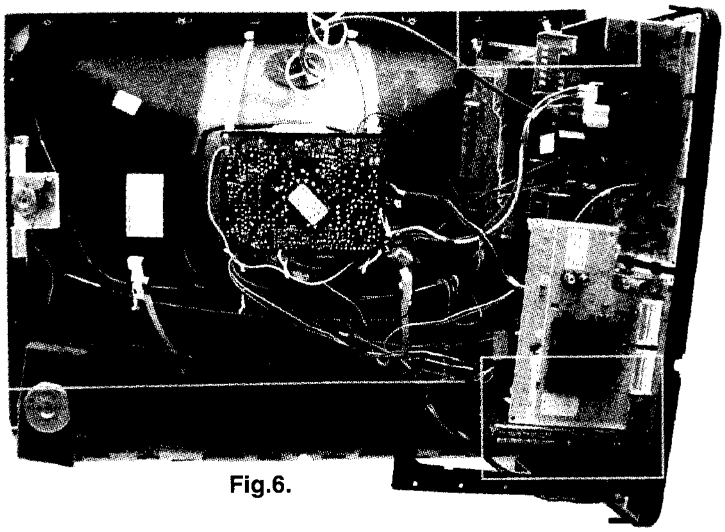


Fig.6.

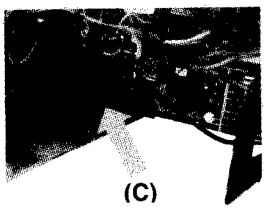


Fig.8.

SELF CHECK

1. Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self-Check mode press the down **(-/v)** button on the customer controls at the front of the set,at the same time pressing the **STATUS** button on the remote control, and the screen will show :-

SELBSTDIAGNOSE

1. Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose zunächst die Taste "**STATUS**" auf der Fernbedienung und gleichzeitig die-Taste am Bedienteil des FS-Gerätes drücken **(-/v)**, auf dem Bildschirm erscheint hierauf :-

2. Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt :-

```
VPC        O.K
TUN        O.K       PCB     O.K.
E2         O.K
                     Cab     O.K.
DPL        - -
CIP1       O.K       Sum     Factory use
CIP2       O.K               only
                             Nur für
VP         O.K               Herstellung
DFU        O.K
COL        O.K
PIP        O.K
DIS        O.K

OPTION 1   B9    {B9}
OPTION 2   1C    {FD}
OPTION 3   1F    {1F}
OPTION 4   20    {20}
OPTION 5   FB    {FB}
OPTION 6   63    {63}
```

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".
Wenn der Hauptprozesser (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschluss nicht belegt ist, zeigt die entsprechende Position " - - " anstelle von OK an.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

- **LUCI** interface kit (**L**inked **U**tility **C**omputer **I**nterface)
  Part number: TZS6EZ002
  This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.

- **VICI** (**V**isual **I**nteractive **C**omputer **I**nformation)
  These C.D.'s contain multimedia documentation providing quick access to service information.
  Part No. TZS7EZ006 & TZS7EZ005
  1. Service Manuals
  2. Instruction Books
  3. Technical Information

- **TASMIN** (**T**echnically **A**dvanced **S**ystem for **M**ultimedia **I**nteractive **N**otes)
  As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

NOTE: This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels into the Memory Pack and then download them onto this or any other EURO-5 TV set.

Service-Hilfen

Zur Unterstützung der Servicearbeiten stehen weitere Hilfsmittel zur Verfügung.

- **LUCI** interface kit (PC-unterstützes Diagnosesystem)
  Bestell-Nr.: TZS6EZ002
  Es beinhaltet ein Interface, die Anschlusskabel zum FS-Gerät und die Diagnose-Software. Bei Einführung von neuen Modellen ist ein Update der Software jederzeit möglich.

- **VICI** (Interaktive CD-ROM) mit schnellem Zugiff auf Serviceinformationen.
  Bestell-Nr.:TZS7EZ006 & TZS7EZ005
  1. Service Manuals
  2. Bedienungsanleitungen
  3. Technical Information

- **TASMIN** (Technisch erweitertes System für interaktive Multimedia-Hinweise und Notizen)
  Genauso wie dieses Produkt einen ersten Schritt in Richtung erweitertes interaktives Training bereitstellt, ermöglicht es einen noch schnelleren Zugang zu technischen Informationen.

HINWEIS: Dieses FS-Gerät bietet auch die Möglichkeit eines Memory Pack, mit dem Sie die gewählten Fernsehkanäle abspeichern und auf jedes beliebige EURO-5 FS-Gerät umkopieren können.

ADJUSTMENT PROCEDURE

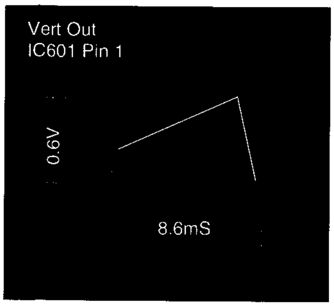
Item/Preparation	Adjustments
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls:- Brightness Minimum Contrast Minimum Volume Minimum	1. Confirm the following voltages. **D-Board** **E-Board** D3 PIN5 147V ± 3V U8A E19-PIN8 8V ± 0,5V D12 PIN5 5V ± 0,3V U9 IC3801-PIN3 9V ± 0,5V D13 PIN1 40V ± 4V U12 E22-PIN8 12V ± 0,5V D3 PIN4 230V ± 10V STD5V E26-PIN4 5V ± 0,5V D3 PIN4 205V ± 10V U15 E23-PIN8 15V ± 1V D3 PIN4 190V ± 10V U15 E23-PIN9 -15V ± 1V D3 PIN4 190V ± 10V U33 E22-PIN10 33V ± 4V D14 PIN5 5V ± 0,5V U40 E24-PIN1 40V ± 3V D12 PIN7 15V ± 2V U5B E19-PIN5 5V ± 0,5V D12 PIN9 15V ± 2V D11 PIN8 12V ± 2V D11 PIN10 33V ± 3V
Cut-Off 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cutoff mode.	Adjust the screen VR until the display shows "O.K."

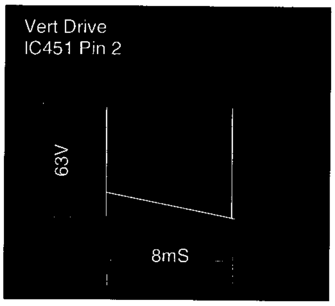
ABGLEICH

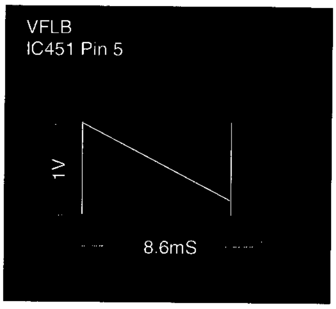
Vorbereitungen	Abgleich
+B - Abgleich 1. Testbild empfangen. Helligkeit auf Minimum Kontrast auf Minimum Lautstärke Minimum	1. Folgende Spannungen sind zu überprüfen. D3 PIN5 147V ± 3V U8A E19-PIN8 8V ± 0,5V D12 PIN5 5V ± 0,3V U9 IC3801-PIN3 9V ± 0,5V D13 PIN1 40V ± 4V U12 E22-PIN8 12V ± 0,5V D3 PIN4 230V ± 10V STD5V E26-PIN4 5V ± 0,5V D3 PIN4 205V ± 10V U15 E23-PIN8 15V ± 1V D3 PIN4 190V ± 10V U15 E23-PIN9 -15V ± 1V D3 PIN4 190V ± 10V U33 E22-PIN10 33V ± 4V D14 PIN5 5V ± 0,5V U40 E24-PIN1 40V ± 3V D12 PIN7 15V ± 2V U5B E19-PIN5 5V ± 0,5V D12 PIN9 15V ± 2V D11 PIN8 12V ± 2V D11 PIN10 33V ± 3V
Cut-Off 1. Testbild empfangen. 2. Bildröhre entmagnetisieren. 3. Service-Mode 1 anwählen. 4. Im Service-Mode den Abgleichpunkt Cutoff-Mode wählen .	Bis OK auf dem Bildschirm erscheint. Den Wert abspeichern.

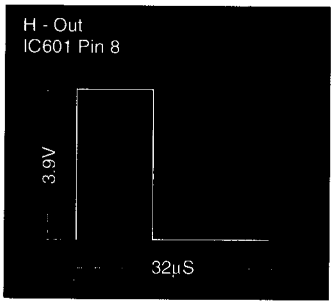
WAVEFORM PATTERN TABLE SIGNAL TABELLE

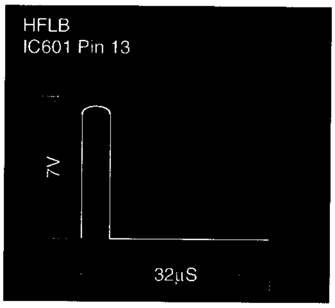
NOTE: All waveforms have been taken using a standard colour bar pattern.
HINWEIS: Alle oszillogramme wurden unter Verwendung des Standard Farbbalken Testbildes aufgenommen.

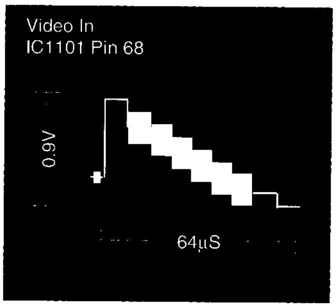


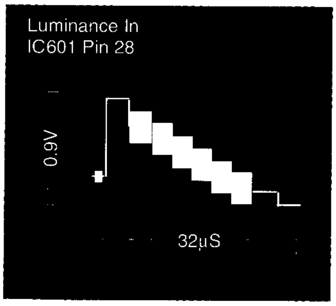


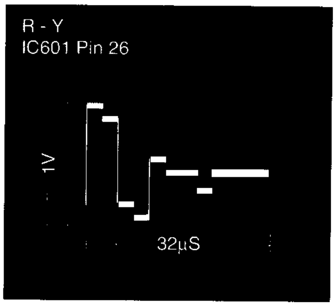


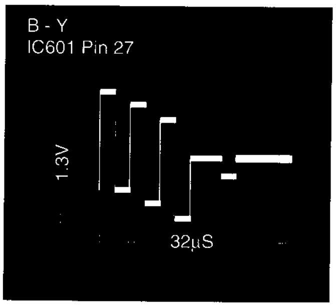


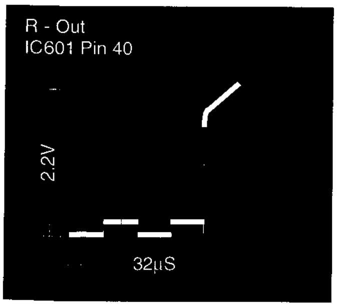


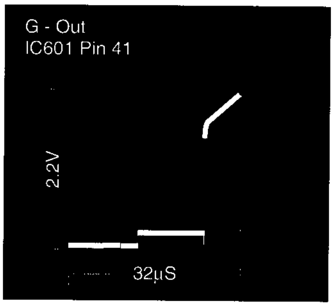


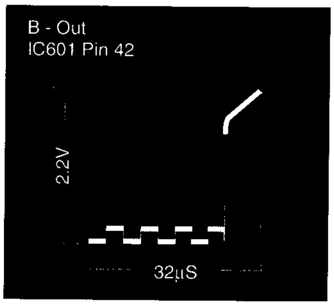


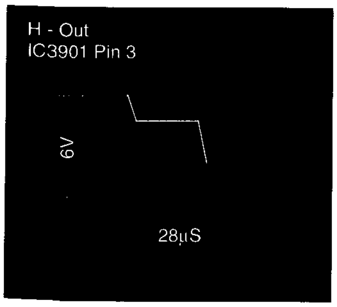


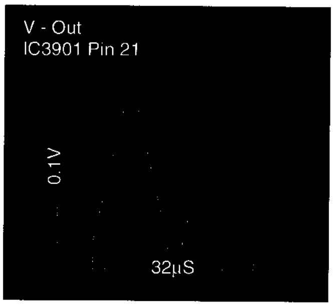


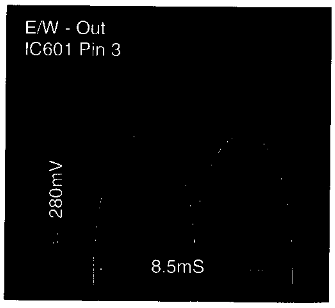












ALIGNMENT SETTINGS:

(The figures below are nominal and used for representative purposes only.)

1. Set the Bass to maximum position, set the Treble to minimum position, press the down button **(- / v)** on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode.
2. Press the **RED / GREEN** buttons to step up / down through the functions.
3. Press the **YELLOW / BLUE** buttons to alter the function values.
4. Press the **STR** button after each adjustment has been made to store the required values.
5. To exit the Service Mode, press the **"N"** button.

Alignment Function		**Settings / Special features**
Horizontal Position	H-Pos +020	Optimum setting.
Vertical Position	V-Pos +024	Optimum setting.
Horizontal Amplitude	H-Amp +049	Optimum setting.
Vert. Amplitude	V-Amp +029	Optimum setting.
EW-amplitude	E/W-Amp1 +022	Optimum setting.
EW-amplitude	E/W-Amp2 +000	Optimum setting.
Trapezium-comp	Trapez-1 +033	Optimum setting.
Horizontal-Parallel	H-Parallel +032	Optimum setting.
Vertical Linearity	V-Lin +004	Optimum setting.
DVCO	DVCO 000	Receive a PAL Colour Bar Pattern. For DVCO alignment press **"Blue"** button, wait until the colours are stable and press **"STR"**.
Cut-off DC	Cut-off O.K.	To adjust Cutoff adjust the screen VR until the display shows "O.K."
Highlight	High 0031 0031 0031	Contrast Maximum A.I. Off Optimum setting.
Sub-Brightness	Sub-Brightness 000	Optimum setting.

ABGLEICHTABELLE:

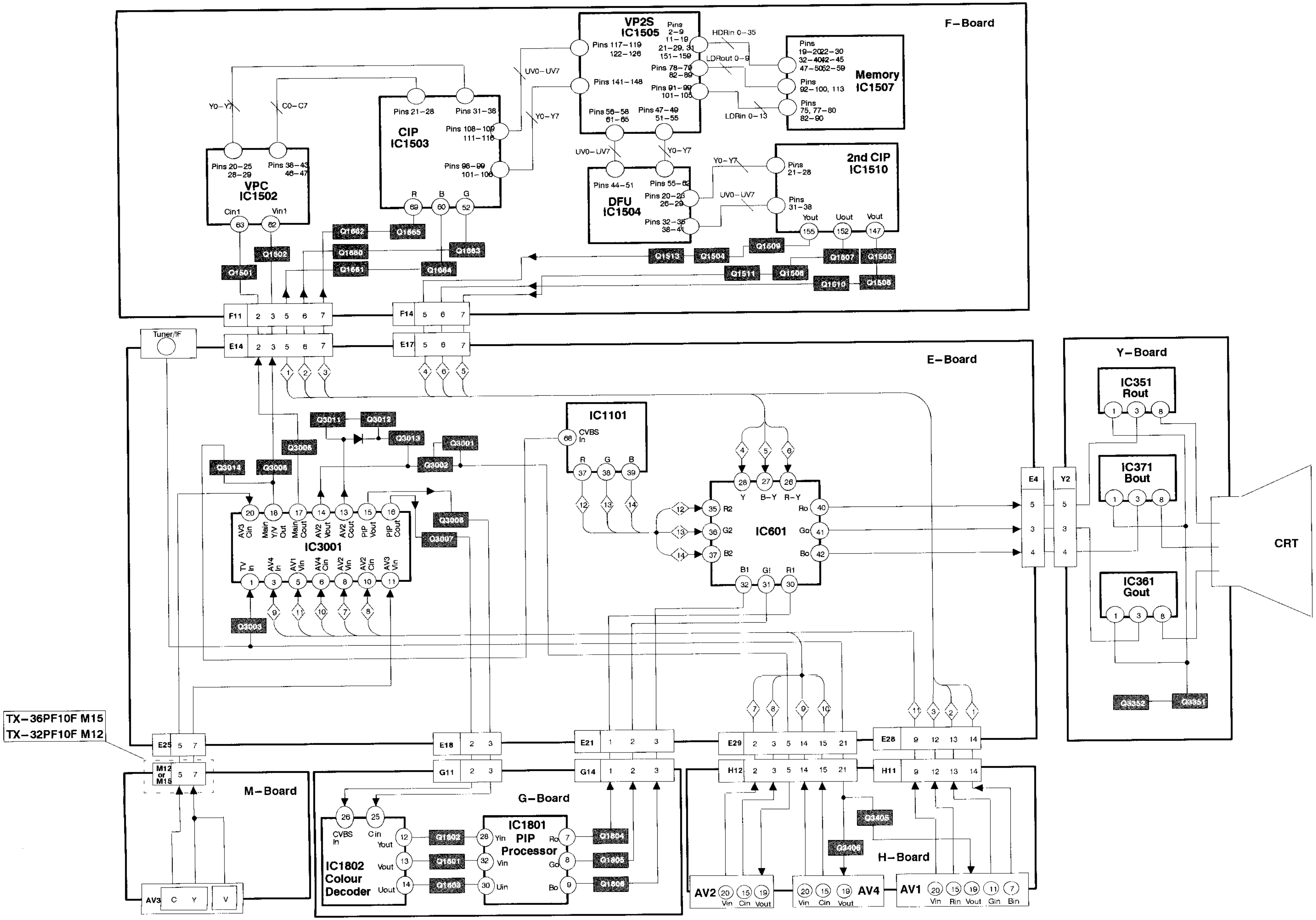
(Die angegebenen Werte sind Mittelwerte und Können individuell nach oben oder unten nach dem korrekten Abgleich abweichen.)

1. Um in den Service-Mode zu gelangen, gehen sie bitte wie folgt vor.
2. Stellen sie im Toneinstellungs-Menü die Bässe auf Maximum und die Höhen auf Minimum.
3. Halten sie die **INDEX**-Taste auf der Fernbedienung gedrückt und drücken zusätzlich die Taste **-/v** im Bedienteil des TV-Gerätes. Auf dem Bildschirm erscheint die entsprechende Anzeige für den Service-Mode.
4. Die einzelnen Funktionen mit Hilfe der **ROTEN** und **GRÜNEN** Taste anwählen.
5. Mit der **GELBEN** und **BLAUEN** Taste die Werte der einzelnen Funktionen ändern.
6. Nach jeder Einstellung die Taste **STR** auf der Fernbedienung drücken, um die geänderten Werte abzuspeichern.
7. Zum Verlassen des Service-Modus die "**N**" - Taste auf der Fernbedienung drücken.

Abgleichfunktion		**Einstellung / Besondere Merkmale**
Horizontal Position	H-Pos +020	Optimale Einstellung.
Vertikale Position	V-Pos +024	Optimale Einstellung.
Horizontale Amplitude	H-Amp +049	Optimale Einstellung.
Vertikale Amplitude	V-Amp +029	Optimale Einstellung.
OW-amplitude	E/W-Amp1 +022	Optimale Einstellung.
OW-amplitude	E/W-Amp2 +000	Optimale Einstellung.
Trapez-Kompensation	Trapez-1 +033	Optimale Einstellung.
Horizontale-Parallel	H-Parallel +032	Optimale Einstellung.
Vertikale linearität	V-Lin +004	Optimale Einstellung.
DVCO	DVCO 000	Ein Farbbalken-Testbild empfangen. Zum Abgleich des Farboszillators (DVCO) die **blau** Taste drücken. Nachdem ein leichtes Flackern in den Farbbalken zum Stillstand gekommen ist, die **STR**-Taste drücken.
Cut-off DC	Cut-off O.K.	Den Abgleichwert solange ändern, bis OK auf dem Bildschirm erscheint. Den Wert abspeichern.
Highlight	High 0031 0031 0031	Contrast Maximum A.I. Off Optimale Einstellung.
Sub-Brightness	Sub-Brightness 000	Optimale Einstellung.

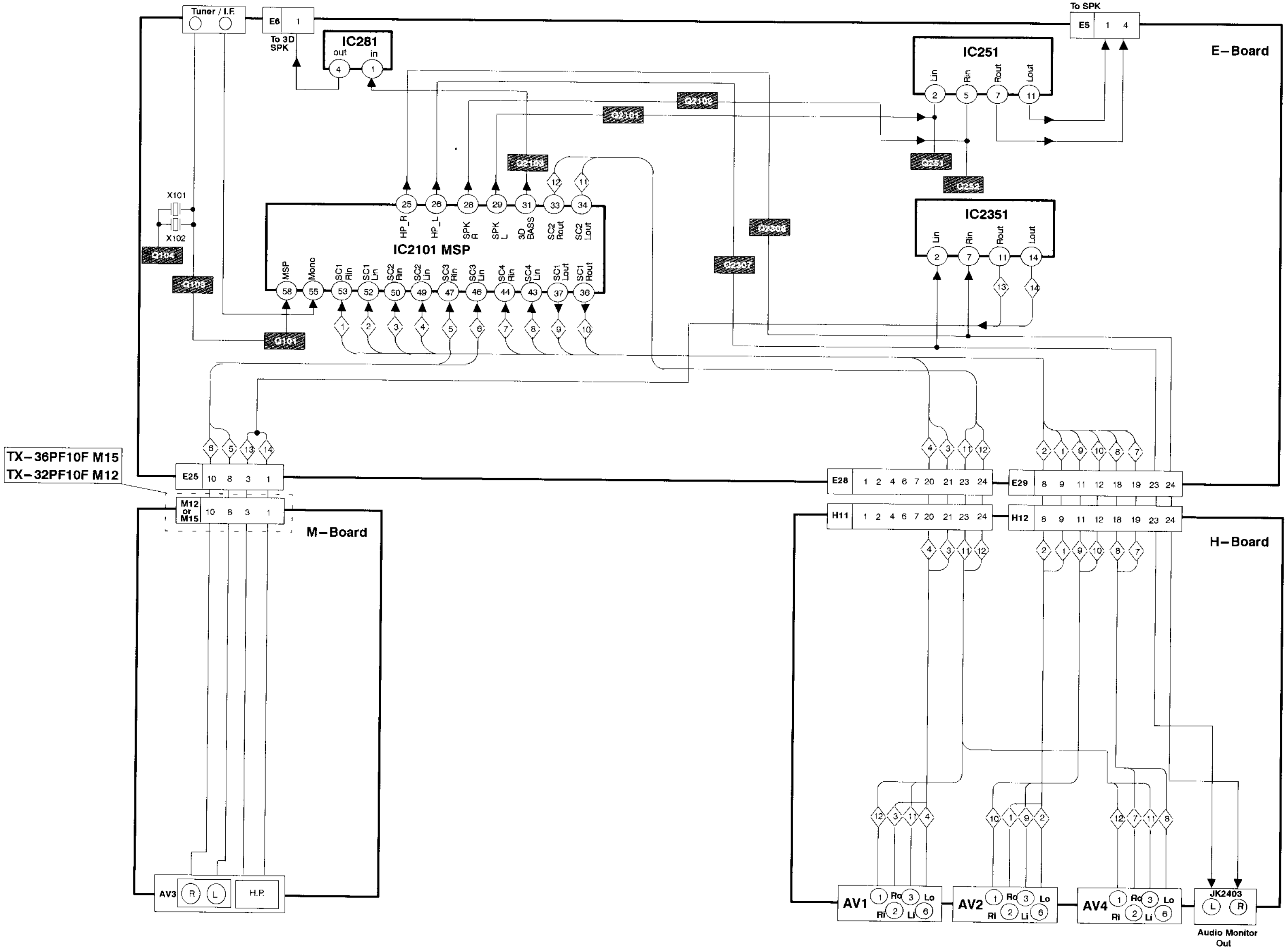
VIDEO BLOCK DIAGRAM

BILDSIGNAL BLOCKSCHEMA


F-Board
VP2S IC1505
Memory IC1507
CIP IC1503
VPC IC1502
DFU IC1504
2nd CIP IC1510
HDRin 0-35
LDRout 0-9
LDRin 0-13
UV0-UV7
Y0-Y7
C0-C7
Tuner/IF
E-Board
IC1101
CVBS In
IC601
IC3001
Y-Board
IC351 Rout
IC371 Bout
IC361 Gout
CRT
M-Board
AV3
G-Board
IC1801 PIP Processor
IC1802 Colour Decoder
H-Board
AV1
AV2
AV4
TX-36PF10F M15
TX-32PF10F M12
F11
F14
E14
E17
E4
Y2
E25
E18
E21
E29
E28
M12 or M15
G11
G14
H12
H11

AUDIO BLOCK DIAGRAM

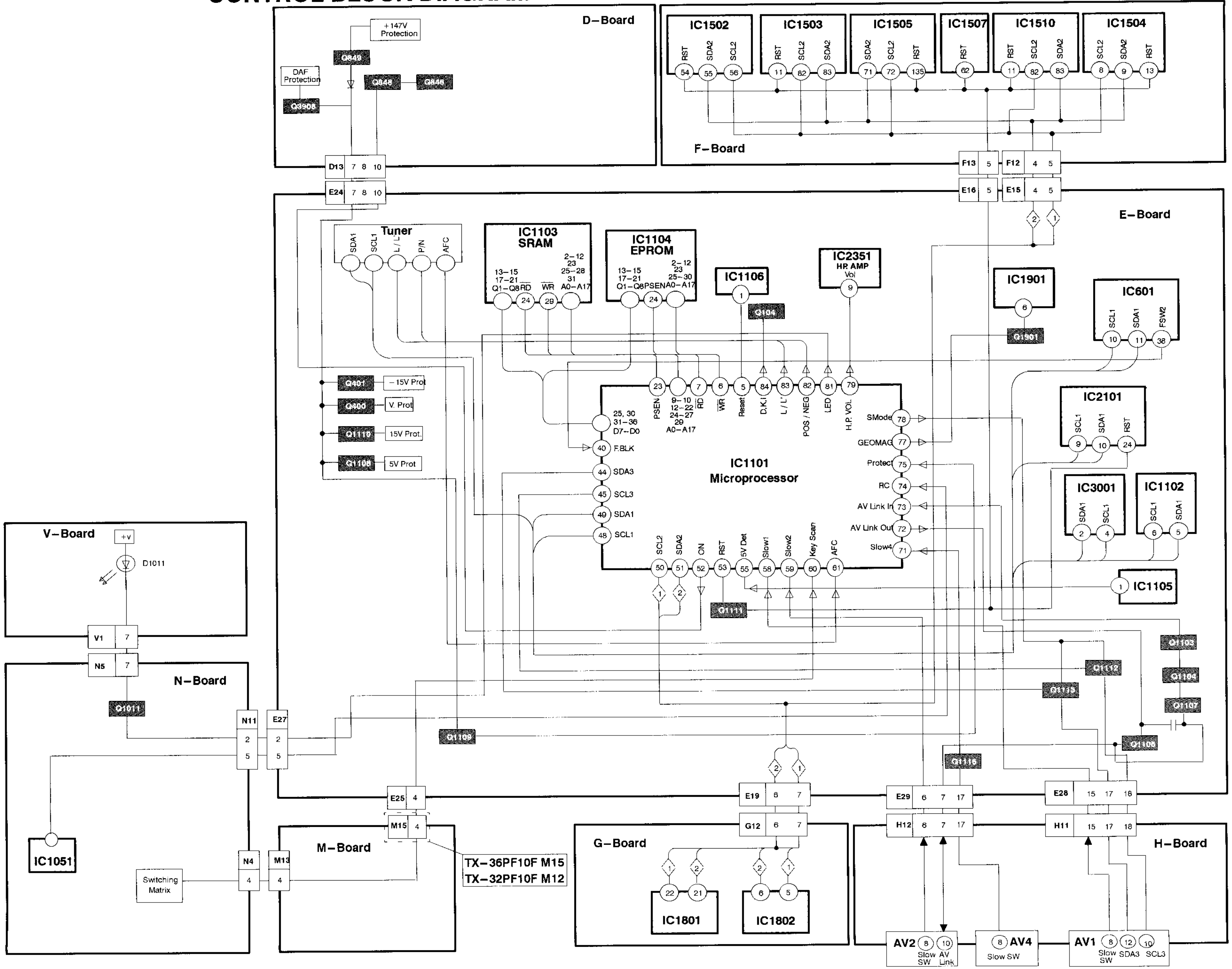
TONSIGNAL BLOCKSCHEMA



TX-36PF10F M15
TX-32PF10F M12
Tuner / I.F.
E6
To 3D SPK
IC281
out
in
X101
X102
Q104
Q103
Q101
IC2101 MSP
HP_R
HP_L
SPK R
SPK L
3D BASS
SC2 Rout
SC2 Lout
MSP
Mono
SC1 Rin
SC1 Lin
SC2 Rin
SC2 Lin
SC3 Rin
SC3 Lin
SC4 Rin
SC4 Lin
SC1 Lout
SC1 Rout
Q2103
Q2101
Q2102
Q2306
Q2307
IC251
Lin
Rin
Rout
Lout
Q251
Q252
IC2351
To SPK
E5
E-Board
E25
M12 or M15
M-Board
AV3
R
L
H.P.
E28
E29
H11
H12
H-Board
AV1
AV2
AV4
Ri
Ro
Li
Lo
JK2403
Audio Monitor Out

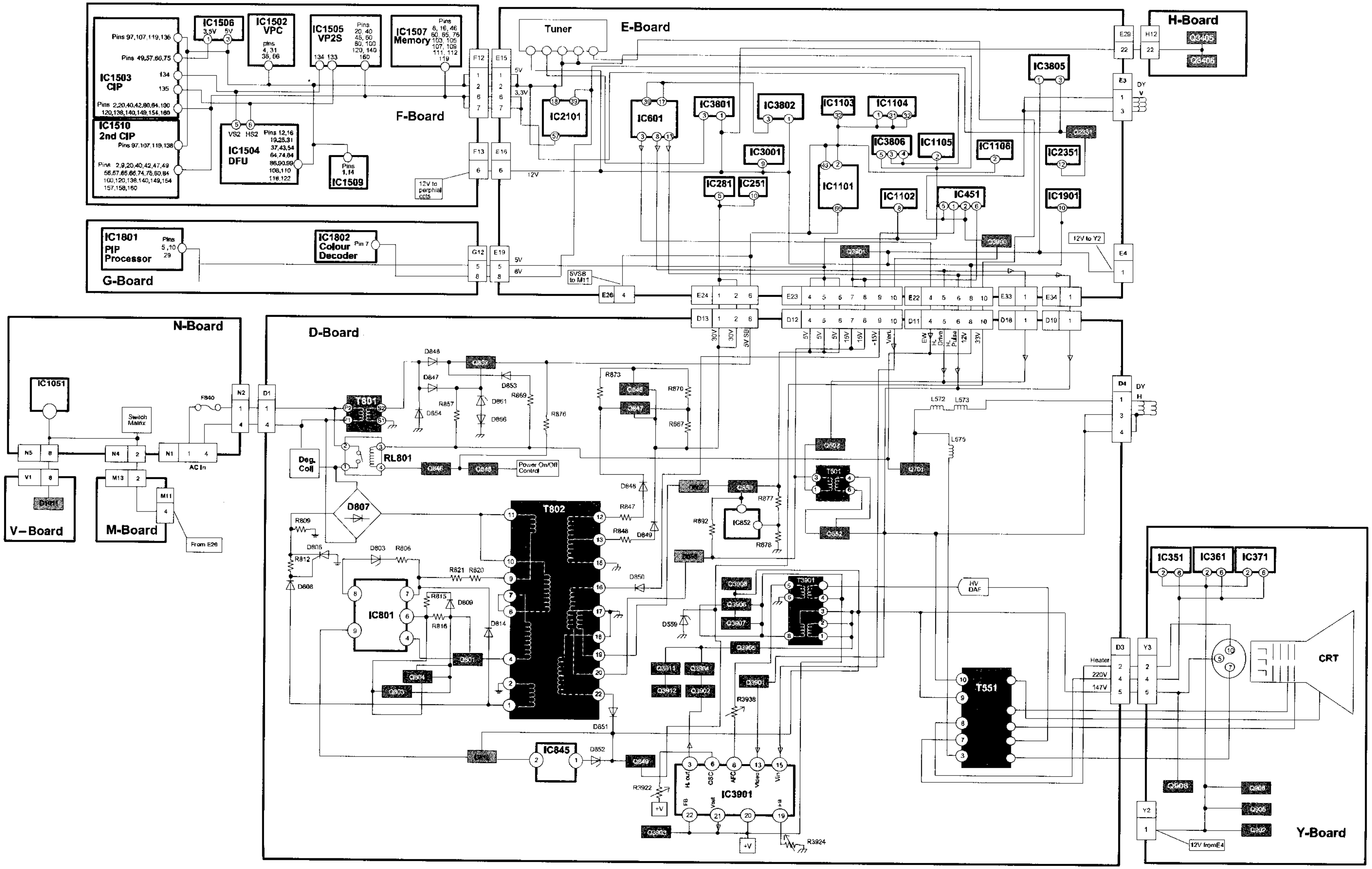
CONTROL BLOCK DIAGRAM

KONTROLL BLOCKSCHEMA


D-Board
+147V Protection
DAF Protection
Q849
Q848
Q846
Q3908
D13 7 8 10
E24 7 8 10
F-Board
IC1502 RST SDA2 SCL2 54 55 56
IC1503 RST SCL2 SDA2 11 82 83
IC1505 SDA2 SCL2 RST 71 72 135
IC1507 RST 62
IC1510 RST SCL2 SDA2 11 82 83
IC1504 SCL2 SDA2 RST 8 9 13
F13 5
F12 4 5
E16 5
E15 4 5
E-Board
Tuner SDA1 SCL1 L/L' P/N AFC
IC1103 SRAM 13-15 17-21 Q1-Q8 RD WR 24 29 2-12 23 25-28 31 A0-A17
IC1104 EPROM 13-15 17-21 Q1-Q8 PSEN 24 2-12 23 25-30 A0-A17
IC1106 1
Q104
IC2351 HP AMP Vol 9
IC1901 6
Q1901
IC601 SCL1 SDA1 FSW2 10 11 38
IC2101 SCL1 SDA1 RST 9 10 24
IC3001 SDA1 SCL1 2 4
IC1102 SCL1 SDA1 6 5
IC1105 1
Q401 -15V Prot
Q400 V. Prot
Q1110 15V Prot.
Q1106 5V Prot
IC1101 Microprocessor
23 PSEN
9-10 12-22 24-27 29 A0-A17
7 RD
6 WR
5 Reset
84 D.K.I
83 L/L'
82 POS / NEG
81 LED
79 H.P. VOL
25, 30 31-36 D7-D0
40 F.BLK
44 SDA3
45 SCL3
49 SDA1
48 SCL1
50 SCL2
51 SDA2
52 ON
53 RST
55 5V Det
58 Slow1
59 Slow2
60 Key Scan
61 AFC
78 SMode
77 GEOMAG
75 Protect
74 RC
73 AV Link In
72 AV Link Out
71 Slow4
Q1111
Q1103
Q1104
Q1107
Q1112
Q1113
Q1105
Q1116
Q1109
E27 2 5
E25 4
E19 6 7
E29 6 7 17
E28 15 17 18
V-Board
+V
D1011
V1 7
N5 7
N-Board
Q1011
N11 2 5
N4 4
IC1051
Switching Matrix
M-Board
M15 4
M13 4
TX-36PF10F M15
TX-32PF10F M12
G-Board
G12 6 7
IC1801 22 21
IC1802 6 5
H-Board
H12 6 7 17
H11 15 17 18
AV2 8 10 Slow SW AV Link
AV4 8 Slow SW
AV1 8 12 10 Slow SW SDA3 SCL3

POWER SUPPLY & DEFLECTION BLOCK DIAGRAM

STROMVERSORGUNGS BLOCKSCHEMA

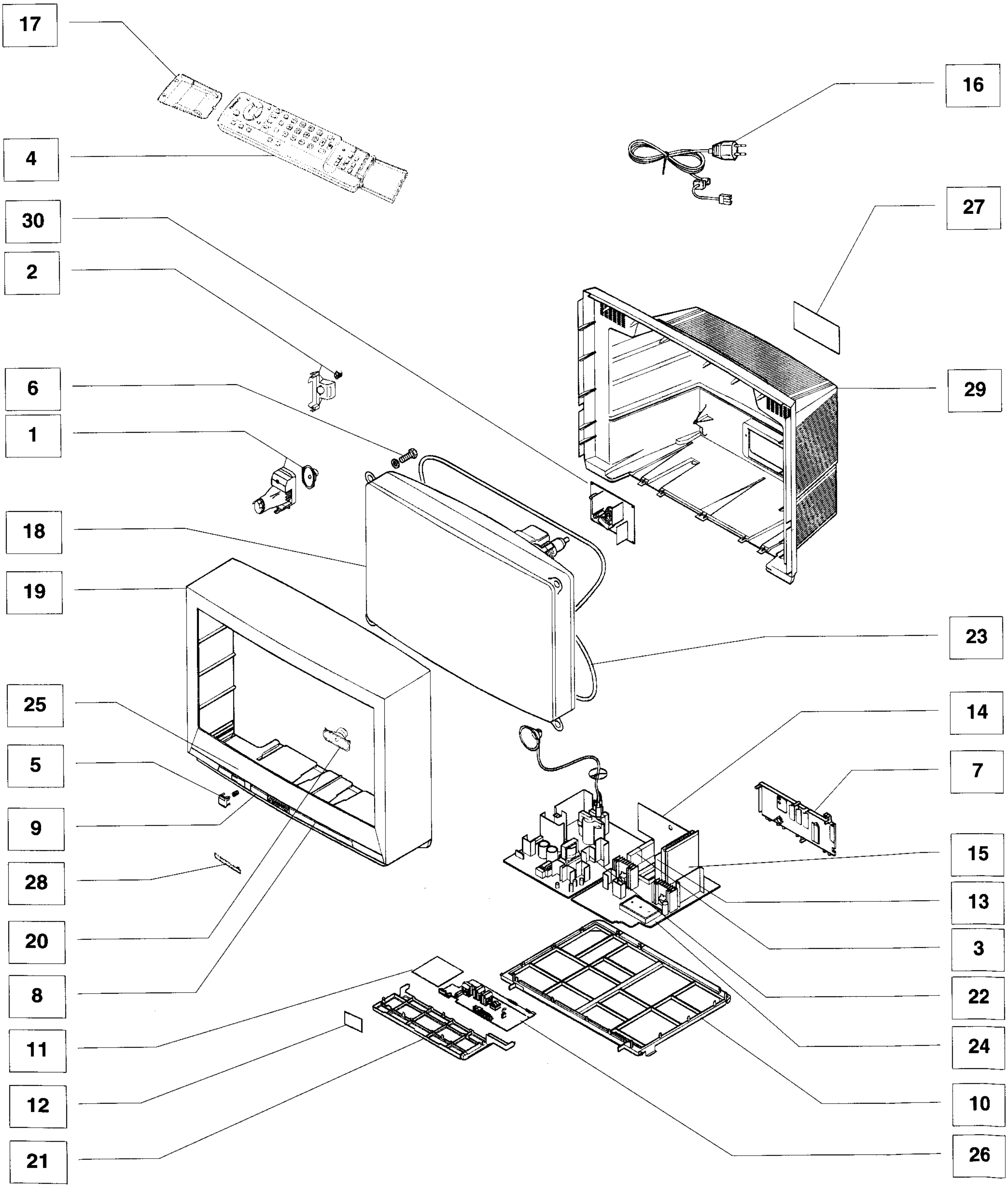

F-Board
IC1503 CIP
IC1510 2nd CIP
IC1506
IC1502 VPC
IC1505 VP2S
IC1507 Memory
IC1504 DFU
IC1509
12V to perphial ccts
G-Board
IC1801 PIP Processor
IC1802 Colour Decoder
E-Board
Tuner
IC2101
IC601
IC3801
IC3802
IC3001
IC281
IC251
IC1103
IC1104
IC3806
IC1105
IC1101
IC1102
IC451
IC1106
IC2351
IC1901
IC3805
12V to Y2
5VSB to M11
H-Board
Q3405
Q3406
DY
V
H
N-Board
IC1051
Switch Matrix
F840
AC In
V-Board
M-Board
From E26
D-Board
T801
RL801
Deg. Coil
D807
T802
IC801
IC852
T501
T3901
IC845
IC3901
T551
Power On/Off Control
L572
L573
L575
HV DAF
Heater
220V
147V
30V
5V SB
5V
15V
-15V
Vert.
EW
H. Drive
H. Pulse
12V
33V
Y-Board
IC351
IC361
IC371
CRT
12V from E4

PARTS LOCATION

EXPLOSIONSZEICHNUNG

NOTE:
The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.

Anmerking:
Die Nummer auf den mechanischen Teilen Zeigt die Bezugsnummer der Ersatzteilliste an.


17
16
4
30
27
2
6
29
1
18
19
23
25
14
5
7
9
15
28
13
20
3
8
22
11
24
12
10
21
26

REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturers specified parts.
* In case of ordering these spare parts, please always add the complete Model-Type number to your order.

ERSATZTEILLISTE

Wichtiger Sicherhitshinweis

Teile, die mit einen Hinweis ⚠ gekennzeichnet sind wichtig für die Sicherhet. Solite ein Auswechsein erfordelrich sein, sind unbdingt Originalteile einzusetzen.
Bei der Bestellung von Ersatzteilen, di mit * gekennzeichnet sind, geben Sie bitte unbedingt die vollständige Typenbezeicnung mit an.

Cct Ref	Parts Number	Description	
COMMON PARTS			
MECHANICAL PARTS			
1	EAB12146B	LOUD SPEAKER	
2	EAS13KH14E	TWEETER SPEAKER	
3	ENG29505G	TUNER	⚠
4	EUR511220	REMOTE CONTROL	
5	TBXA19701	POWER BUTTON	
6	THTA006Z	CRT FIXING SCREW	
7	TKP8E1253-3	REAR AV PANEL	
8	TKPA27904	RIGHT DOOR	
9	TKPA28004	LEFT DOOR	
10	TMX8E034	CHASSIS FRAME	
11	TNP8EN017AA	N P.C.B.	⚠
12	TNP8EV003AA	V P.C.B.	⚠
13	TNPA0877AB	G P.C.B.	⚠
14	TNPA1047AC	H P.C.B.	⚠
15	TNPA1068AA	F P.C.B.	⚠
16	TSX8E0028	POWER CORD	⚠
17	UR51EC904A	BATTERY COVER (REMOTE)	
MISCELLANEOUS COMPONENTS			
	832AG11D-ESL	IC SOCKET	
	PLCC-84-T	84 PIN IC SOCKET	
	TBL63413	RUBBER	
	TBM8E1940-1	AV PANEL LABEL	
	TBMU025-1	LEFT INDICATION SHEET	
	TBMU026	BADGE	
	TEK6940	LID CATCH	
	TES2298	CRT EARTH SPRING	
	THT1062	SCREW	
	TKPA27711	INDICATOR PANEL	
	TKRA13104	HANDLE	
	TMWJ002	REMOTE CONTROL HOLDER	
	TMWJ011	LED HOLDER	
	TMX8E025	P.C.B. BRACKET	
	TMX8E035	POWER BUTTON JOINT	
	UM-3DJ-2P	BATTERY PACK	
	ZTBZAD550A	ANODE CABLE	
RL801	TSE1885-1	RELAY	
R805	232266296706	THERMISTOR	⚠
SOD9	31221212478	FIX CLIP	
SOD1	31221212478	FIX CLIP	
INSTRUCTION BOOKS			
	TQB8E2694A-2	GERMAN	⚠
	TQB8E2694BD2	DUTCH/FRENCH	⚠
	TQB8E2694CE2	ITALIAN/SPANISH	⚠
	TQB8E2694FG2	SWEDISH/NORG.	⚠
	TQB8E2694HK2	SUOMI/DANISH	⚠
I.C.s			
IC251	LA4282	AUDIO OUTPUT	
IC281	TDA2030AV	AUDIO AMPLIFIER	
IC351	TDA6111Q-N4	RGB OUTPUT	
IC361	TDA6111Q-N4	RGB OUTPUT	
IC371	TDA6111Q-N4	RGB OUTPUT	
IC381	TL431ACLPM	REGULATOR	
IC451	LA7845N	VERTICAL OUTPUT	
IC601	TDA9330HN1G	VIDEO PROCESSOR	
IC801	AN8029	POWER SUPPLY	
IC845	SE140N	ERROR AMPLIFER	
IC852	TL431ACLPM	REGULATOR	
IC1051	PNA4601M04TV	LED RECEIVER	
IC1101	SDA5450C48-1	MICRO PROCESSOR	
IC1103	M5M51008BP	SRAM	
IC1105	MN1381-T(TA)	RESET	
IC1106	MN1381-R(TA)	RESET	
IC1502	VPC3215CB4TP	VPC	
IC1503	MB87F1720	CIP	
IC1504	FJB007S	DFU	
IC1505	MB87F2131	VP2S	
IC1506	AN77L035M-E1	3.5V REGULATOR	
IC1507	MB87H2010	MEMORY	
IC1509	TLC2932IPWL	CLOCK CONVERTOR	
IC1510	MB87F1720	CIP	
IC1801	SDA9288XEGEG	PIP PROCESSOR	
IC1802	TDA9143-N1	COLOUR DECODER	
IC1901	LA6515	EARTH CORRECTION	
IC2101	MSP3410DPPB4	AUDIO PROCESSOR	
IC2351	AN7108	H.P. AMPLIFIER	
IC3001	TEA6415C	VIDEO SWITCH	
IC3801	AN7809FLB	9V REGULATOR	
IC3802	AN7708FLB	8V REGULATOR	
IC3805	AN7808LB	8V REGULATOR	
IC3806	SI-3033C	3.5V REGULATOR	
IC3901	AN5422K	DYNAMIC FOCUS	
FUSES			
F840	XBA2C50TH15	FUSE	⚠
F845	TR5-T3150	FUSE	⚠
F846	TR5-T1250	FUSE	⚠
F8401	EYF52BC	FUSE HOLDER	
F8402	EYF52BC	FUSE HOLDER	
DIODES			
D001	MA4020	DIODE	
D002	MA4020	DIODE	
D252	MA165TA5	DIODE	
D253	MA700TA5	DIODE	
D254	MA700TA5	DIODE	
D255	MA165TA5	DIODE	
D282	MA165TA5	DIODE	
D284	MA165TA5	DIODE	

Cct Ref	Parts Number	Description
D285	MA165TA5	DIODE
D286	MA165TA5	DIODE
D287	MA4200	DIODE
D351	ERA15-04V3	DIODE
D352	ERA15-04V3	DIODE
D361	ERA15-04V3	DIODE
D362	ERA15-04V3	DIODE
D371	ERA15-04V3	DIODE
D372	ERA15-04V3	DIODE
D373	MTZJT-7715A	DIODE
D374	MTZJT-7715A	DIODE
D375	MTZJT-7715A	DIODE
D387	MA2160LFS	DIODE
D400	MA4104	DIODE
D401	MA165TA5	DIODE
D402	MA165TA5	DIODE
D404	EU02AV1	DIODE
D405	MA165TA5	DIODE
D408	MA165TA5	DIODE
D502	1SS254T-77	DIODE
D503	EU02	DIODE
D504	EU02	DIODE
D505	ERA81004V3	DIODE
D556	AU02V0	DIODE
D559	MTZJT-7736A	DIODE
D560	1SS252T-77	DIODE
D563	RH3GLF102	DIODE
D571	FMV-3GULF730	DIODE
D575	1SS252T-77	DIODE
D601	MA29TA5	DIODE
D603	MA4075	DIODE
D605	MA4062	DIODE
D607	MA165TA5	DIODE
D610	MA4043	DIODE
D611	MA165TA5	DIODE
D612	MA165TA5	DIODE
D615	MA165TA5	DIODE
D616	MA178TA5	DIODE
D617	MTZJT-779.1C	DIODE
D618	MTZJT-779.1C	DIODE
D620	MA165TA5	DIODE
D651	MA165TA5	DIODE
D701	AU02V0	DIODE
D702	MA29TA5	DIODE
D803	MTZJT-7712C	DIODE
D806	TF361MALF3	DIODE
D807	RBV-608LF-B	DIODE
D808	MA165TA5	DIODE
D809	ERA22-02V3	DIODE
D810	MA2180BLFS	DIODE
D812	MTZJT-775.6B	DIODE
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D814	AU01ZV0	DIODE
D815	PC123FY2	DIODE
D817	D5L60F4015	DIODE
D818	TMPG10G3	DIODE
D819	ERA81004V3	DIODE
D820	MA4100	DIODE
D821	EU02AV0	DIODE
D845	MA165TA5	DIODE
D846	EK04V0	DIODE
D847	ERA15-01V3	DIODE
D848	EU02	DIODE
D849	FMGG26S	DIODE
D850	ERB32-02E	DIODE
D851	FMGG2CSLF116	DIODE
D852	MA4062	DIODE
D853	1N4150T-77	DIODE
D854	ERA15-01V3	DIODE
D855	D10SC6MRL	DIODE
D856	MA165TA5	DIODE
D857	FML22SLF610	DIODE
D860	1SS254T-77	DIODE
D861	MTZJT-775.1C	DIODE
D901	1SS254T-77	DIODE
D902	1SS254T-77	DIODE
D903	1SS254T-77	DIODE
D910	R2KNV	DIODE
D1011	LN81RPHL	DIODE
D1102	MA4051	DIODE
D1103	MA4051	DIODE
D1104	MA165TA5	DIODE
D1105	MA165TA5	DIODE
D1107	MA165TA5	DIODE
D1109	MA165TA5	DIODE
D1110	MA165TA5	DIODE
D1112	MA165TA5	DIODE
D1501	MA151ATX	DIODE
D1801	MA151ATX	DIODE
D1802	MA151ATX	DIODE
D2101	MTZJT-7712C	DIODE
D2102	MTZJT-7712C	DIODE
D2351	MTZJT-775.6B	DIODE
D3006	MA4100	DIODE
D3008	MA723TA5	DIODE
D3009	MA170	DIODE
D3011	MA858TA5	DIODE
D3351	1SS254T-77	DIODE
D3352	MA165TA5	DIODE
D3353	MA165TA5	DIODE
D3354	MA165TA5	DIODE
D3401	MTZJT-7712C	DIODE
D3402	MTZJT-7712C	DIODE
D3803	MA4043	DIODE
D3804	MTZJT-778.2A	DIODE
D3805	ERA81004V3	DIODE
D3901	MTZJT-779.1C	DIODE
D3907	ERA22-06V3	DIODE
D3908	ERA22-06V3	DIODE
D3909	MA165TA5	DIODE
D3910	RP1HLFA5	DIODE
D3911	RP1HLFA5	DIODE
D3912	1SS254T-77	DIODE
D3915	MTZJT-7710D	DIODE
D3917	MA165TA5	DIODE
D3990	MTZJT-7724D	DIODE
Q1011	BC557B/126	DIODE

TRANSISTORS

Q101	BC847B	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC857B	TRANSISTOR
Q281	2SD1328STX	TRANSISTOR
Q282	BC857B	TRANSISTOR
Q400	BC847B	TRANSISTOR
Q401	BC847B	TRANSISTOR
Q502	2SC2925STA	TRANSISTOR
Q552	2SC5144LB230	TRANSISTOR
Q553	2SC1473-RN	TRANSISTOR

Cct Ref	Parts Number	Description
Q554	2SC1473-RN	TRANSISTOR
Q601	BC857B	TRANSISTOR
Q602	BC857B	TRANSISTOR
Q603	BC857B	TRANSISTOR
Q604	BC857B	TRANSISTOR
Q607	BC857B	TRANSISTOR
Q608	BC857B	TRANSISTOR
Q701	2SK2538000LB	TRANSISTOR
Q801	2SK1365LB106	TRANSISTOR
Q803	2SD965-R	TRANSISTOR
Q804	2SA719-TA	TRANSISTOR
Q845	2SA684R	TRANSISTOR
Q846	BC847B	TRANSISTOR
Q847	BC857B	TRANSISTOR
Q848	BC847B	TRANSISTOR
Q849	2SA1018QTA	TRANSISTOR
Q850	2SD1474PLB	TRANSISTOR
Q852	2SC1318-S	TRANSISTOR
Q853	BC857C	TRANSISTOR
Q854	BC857C	TRANSISTOR
Q902	BC847B	TRANSISTOR
Q903	BC847B	TRANSISTOR
Q904	BC857B	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1103	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1109	BC847B	TRANSISTOR
Q1110	BC847B	TRANSISTOR
Q1111	BC847B	TRANSISTOR
Q1112	BC847B	TRANSISTOR
Q1113	BC847B	TRANSISTOR
Q1116	BC847B	TRANSISTOR
Q1118	BC857B	TRANSISTOR
Q1501	BC857B	TRANSISTOR
Q1502	BC857B	TRANSISTOR
Q1503	BC847B	TRANSISTOR
Q1504	BC847B	TRANSISTOR
Q1505	BC847B	TRANSISTOR
Q1506	BC847B	TRANSISTOR
Q1507	BC847B	TRANSISTOR
Q1508	BC847B	TRANSISTOR
Q1509	BC847B	TRANSISTOR
Q1510	BC847B	TRANSISTOR
Q1511	BC847B	TRANSISTOR
Q1513	BC857B	TRANSISTOR
Q1660	BC847B	TRANSISTOR
Q1661	BC847B	TRANSISTOR
Q1662	BC847B	TRANSISTOR
Q1663	BC847B	TRANSISTOR
Q1664	BC847B	TRANSISTOR
Q1665	BC847B	TRANSISTOR
Q1666	BC847B	TRANSISTOR
Q1667	BC847B	TRANSISTOR
Q1801	BC847B	TRANSISTOR
Q1802	BC847B	TRANSISTOR
Q1803	BC847B	TRANSISTOR
Q1804	BC857B	TRANSISTOR
Q1805	BC857B	TRANSISTOR

Cct Ref	Parts Number	Description
Q1806	BC857B	TRANSISTOR
Q1901	BC847B	TRANSISTOR
Q2101	BC860B	TRANSISTOR
Q2102	BC860B	TRANSISTOR
Q2103	BC860B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC847B	TRANSISTOR
Q2305	BC857B	TRANSISTOR
Q2307	BC860B	TRANSISTOR
Q2308	BC860B	TRANSISTOR
Q2351	BC847B	TRANSISTOR
Q2352	BC847B	TRANSISTOR
Q3001	BC857B	TRANSISTOR
Q3002	BC847B	TRANSISTOR
Q3003	BC847B	TRANSISTOR
Q3005	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3008	BC847B	TRANSISTOR
Q3010	BC857B	TRANSISTOR
Q3011	BC857B	TRANSISTOR
Q3012	BC847B	TRANSISTOR
Q3013	BC847B	TRANSISTOR
Q3014	BC847B	TRANSISTOR
Q3351	BC847B	TRANSISTOR
Q3352	BC857B	TRANSISTOR
Q3401	BC847B	TRANSISTOR
Q3402	BC847B	TRANSISTOR
Q3403	BC847B	TRANSISTOR
Q3404	BC847B	TRANSISTOR
Q3405	BC847B	TRANSISTOR
Q3406	BC847B	TRANSISTOR
Q3801	2SD1474PLB	TRANSISTOR
Q3901	BC847B	TRANSISTOR
Q3902	BC847B	TRANSISTOR
Q3903	BC847B	TRANSISTOR
Q3904	BC857B	TRANSISTOR
Q3905	2SK1006RF122	TRANSISTOR
Q3906	2SC4572RB	TRANSISTOR
Q3907	BC847B	TRANSISTOR
Q3908	BC847B	TRANSISTOR
Q3911	BC847B	TRANSISTOR
Q3912	BC847B	TRANSISTOR
Q3990	BC847B	TRANSISTOR

TRANSFORMERS

T501	ETH19Y187AY	TRANSFORMER	⚠
T551	ZTFL77002A	F.B.T.	⚠
T801	ETP35KAN619U	TRANSFORMER	⚠
T802	ETS49AH1W7AD	TRANSFORMER	⚠
T3901	ETF18L37B	TRANSFORMER	

COILS

J361	EXCELSA39V	COIL
L002	EXCELDR35V	COIL
L003	EXCELDR35V	COIL
L004	EXCELSA35T	COIL
L005	TLT100K991R	COIL
L007	EXCELDR35V	COIL
L008	ELJFC2R2KF	COIL
L009	ELJFC2R2KF	COIL
L251	EXCELSA35T	COIL
L252	EXCELSA35T	COIL
L253	EXCELSA35T	COIL
L254	EXCELSA35T	COIL
L281	EXCELSA35T	COIL
L282	EXCELSA35T	COIL
L351	TAXK0036	DELAY LINE

Cct Ref	Parts Number	Description
L353	TLT120K991R	COIL
L361	TAXK0036	DELAY LINE
L363	TLT120K991R	COIL
L371	TAXK0036	DELAY LINE
L373	TLT120K991R	COIL
L381	TLT220K991R	COIL
L383	EXCELSA35T	COIL
L501	ELELN101KA	COIL
L554	EXCELSA35T	COIL
L555	EXCELDR35V	COIL
L556	EXCELDR35C	COIL
L557	EXCELDR35C	COIL
L572	ELHKLB025B	COIL
L573	ELHKLB026B	COIL
L575	ELC18B331E	COIL
L601	EXCELDR25V	COIL
L602	EXCELDR35V	COIL
L603	TLT033K991R	COIL
L604	ELEXT2R7KA	COIL
L605	ELEXT2R7KA	COIL
L606	ELEXT2R7KA	COIL
L607	ELEXT2R7KA	COIL
L701	ELC18B801L	COIL
L806	EXCELSA39V	COIL
L808	EXCELSA39V	COIL
L809	EXCELDR35C	COIL
L810	EXCELSA39V	COIL
L811	EXCELSA39V	COIL
L812	EXCELDR35V	COIL
L813	EXCELDR35V	COIL
L817	EXCELDR35V	COIL
L819	EXCELSA39V	COIL
L840	ELF18D856A	COIL
L842	ELF18D856A	COIL
L843	ELF18D486D	COIL
L845	EXCELSA35T	COIL
L847	EXCELSA35B	COIL
L849	EXCELSA35T	COIL
L854	ELEIE150KA	COIL
L859	EXCELSA35T	COIL
L860	EXCELSA35T	COIL
L861	EXCELSA35T	COIL
L910	EXCELSA35T	COIL
L911	EXCELSA35T	COIL
L912	EXCELSA35T	COIL
L1101	EXCELDR35V	COIL
L1103	TLT047K991R	COIL
L1104	EXCELDR35V	COIL
L1105	EXCELDR35V	COIL
L1106	TLT047K991R	COIL
L1507	TLT018K991R	COIL
L1508	TLT033K991R	COIL
L1509	EXCELDR35V	COIL
L1510	EXCELDR35V	COIL
L1511	TLT018K991R	COIL
L1516	EXCELDR35V	COIL
L1519	EXCEMT103DTM	COIL
L1523	EXCEMT103DTM	COIL
L1525	EXCEMT103DTM	COIL
L1527	EXCEMT103DTM	COIL
L1528	EXCELDR35V	COIL
L1529	EXCELDR35V	COIL
L1532	EXCELDR35V	COIL
L1533	EXCELDR35V	COIL
L1534	EXCELDR35V	COIL
L1535	EXCELDR35V	COIL
L1536	EXCELDR35V	COIL
L1537	TLT100K991R	COIL
L1538	TLT018K991R	COIL
L1539	TLT033K991R	COIL
L1540	TLT018K991R	COIL
L1541	TLT033K991R	COIL
L1542	TLT018K991R	COIL
L1543	TLT033K991R	COIL
L1802	EXCELDR35V	COIL
L1803	EXCELDR35V	COIL
L1807	EXCELDR35V	COIL
L1808	TLT470K991R	COIL
L1809	EXCELDR35V	COIL
L1811	EXCELDR35V	COIL
L1901	EXCELDR25V	COIL
L2101	TLT100K991R	COIL
L2102	TLT039K991R	COIL
L2103	TLT100K991R	COIL
L2104	EXCELDR35V	COIL
L2106	TLT068K991R	COIL
L2381	EXCELSA35T	COIL
L2382	EXCELSA35T	COIL
L2412	EXCELSA35T	COIL
L2413	EXCELSA35T	COIL
L2505	EXCEMT103DTM	COIL
L2506	EXCEMT103DTM	COIL
L3001	TLT100K991R	COIL
L3205	EXCELDR35V	COIL
L3281	EXCELSA35T	COIL
L3282	EXCELSA35T	COIL
L3401	TLT015K991R	COIL
L3402	TLT015K991R	COIL
L3403	TLT015K991R	COIL
L3404	TLT015K991R	COIL
L3405	TLT015K991R	COIL
L3406	TLT015K991R	COIL
L3407	TLT015K991R	COIL
L3408	TLT015K991R	COIL
L3409	TLT100K991R	COIL
L3410	TLT015K991R	COIL
L3411	TLT015K991R	COIL
L3412	TLT015K991R	COIL
L3413	TLT015K991R	COIL
L3801	EXCELDR35V	COIL
L3901	EXCELSA35T	COIL
L3902	ELC08D182E	COIL

FILTERS

L841	ELF18D850C	LINE FILTER
T803	ETQ24K37AY	LINE FILTER
X101	EFCT6504BF	FILTER
X102	EFCT7004BF	CERAMIC FILTER

CRYSTALS

X601	TSSA010	CRYSTAL
X1101	TSSA121	CRYSTAL
X1501	TSS2169-B	CRYSTAL
X1801	TSSA009	CRYSTAL
X1802	TSSA025	CRYSTAL
X1803	TSSA024	CRYSTAL
X2101	4730007158	CRYSTAL

RESISTORS

	ERD25TC0T	CARBON	0.25W	5%	0 Ω
J101	ERD25TC0T	CARBON	0.25W	5%	0 Ω
JA1	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA1	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
JA2	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA3	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA4	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA5	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA6	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA7	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA8	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA11	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA13	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA14	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA15	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA16	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA19	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA20	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA21	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA23	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA24	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA26	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA27	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA29	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA30	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA31	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA33	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA35	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA36	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA37	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSN002	ERD25TC0T	CARBON	0.25W	5%	0 Ω
JSE004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE009	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE033	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF007	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE025	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSG13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF034	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF037	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF039	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF041	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF042	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF029	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSG1	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF027	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSG2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSG3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSG4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSH002	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSH010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSY03	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSY04	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF043	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF018	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF001	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF006	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF009	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF013	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF032	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF017	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE044	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF019	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF020	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF021	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF022	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF025	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSF028	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R001	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R002	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R003	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R101	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω
R102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R103	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R104	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R105	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R106	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R109	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R110	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R111	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R251	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R252	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R254	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R257	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R258	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R259	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R263	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R264	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R265	ERDS1TJ2R2	CARBON	0.5W	5%	2R2 Ω
R266	ERDS1TJ2R2	CARBON	0.5W	5%	2R2 Ω
R269	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R270	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R271	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R272	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R273	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R276	ERDS1TJ2R2	CARBON	0.5W	5%	2R2 Ω
R281	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R282	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R283	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R284	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R285	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R286	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R287	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R288	ERDS1TJ1R0	CARBON	0.5W	5%	1 Ω
R289	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R290	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R292	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R293	ERJ6GEYJ564	S.M.CARB	0.1W	5%	560K Ω
R294	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R295	ERF3AJ220H	WOUND	3W	5%	22 Ω ⚠
R296	ERF3AJ220H	WOUND	3W	5%	22 Ω ⚠
R350	ERQ12AJ331P	METAL	.125W	5%	330 Ω ⚠
R351	ERJ6GEYJ911	S.M.CARB	0.1W	5%	910 Ω
R352	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω

Cct Ref	Parts Number	Description			
R354	ERO25CKF4122	METAL	0.25W	5%	1K2 Ω ⚠
R355	ERG2FG823H	METAL	2W	5%	82K Ω ⚠
R356	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R357	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R358	ERC12GK471C	SOLID	0.5W	5%	470 Ω
R360	ERO50PKF8251	METAL	0.5W	5%	8M2 Ω ⚠
R361	ERJ6GEYJ911	S.M.CARB	0.1W	5%	910 Ω
R362	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R364	ERO25CKF4122	METAL	0.25W	5%	1K2 Ω ⚠
R365	ERG2FG823H	METAL	2W	5%	82K Ω ⚠
R366	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R367	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R368	ERC12GK471C	SOLID	0.5W	5%	470 Ω
R369	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R370	ERQ2CJP2R2	METAL	2W	5%	2R2 Ω ⚠
R371	ERJ6GEYJ911	S.M.CARB	0.1W	5%	910 Ω
R372	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R374	ERO25CKF4122	METAL	0.25W	5%	1K2 Ω ⚠
R375	ERG2FG823H	METAL	2W	5%	82K Ω ⚠
R376	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R377	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R378	ERC12GK471C	SOLID	0.5W	5%	470 Ω
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R383	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R394	ERJ6ENF1021	S.M. CAR	0.1W	5%	1K Ω
R395	ERJ6ENF2370	S.M. CAR	0.1W	5%	37 Ω
R396	ERJ6ENF1021	S.M. CAR	0.1W	5%	1K Ω
R397	ERJ6ENF2370	S.M. CAR	0.1W	5%	37 Ω
R398	ERJ6ENF1021	S.M. CAR	0.1W	5%	1K Ω
R399	ERJ6ENF2370	S.M. CAR	0.1W	5%	37 Ω
R401	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R402	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R403	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R404	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R416	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R418	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R419	ERG3FJ471	METAL	3W	5%	470 Ω ⚠
R420	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R421	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R441	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R442	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R443	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R451	ERDS1TJ3R3	CARBON	0.5W	5%	3R3 Ω
R452	ERDS1TJ3R3	CARBON	0.5W	5%	3R3 Ω
R453	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R454	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R457	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R458	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R470	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R471	ERDS1FJ1R0	CARBON	0.5W	5%	1 Ω ⚠
R504	ERD25TJ271	CARBON	0.25W	5%	270 Ω
R506	ERDS1TJ681	CARBON	0.5W	5%	680 Ω
R507	ERDS1TJ681	CARBON	0.5W	5%	680 Ω
R554	ERX3FJR39H	METAL	3W	5%	R39 Ω
R556	ERDS1TJ223	CARBON	0.5W	5%	22K Ω
R557	ERDS1TJ683	CARBON	0.5W	5%	68K Ω
R558	ERDS1TJ273	CARBON	0.5W	5%	27K Ω
R560	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R562	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R564	ERDS1TJ394	CARBON	0.5W	5%	390K Ω
R567	ERG3FJ223	METAL	3W	5%	22K Ω ⚠
R569	ERDS1TJ120	CARBON	0.5W	5%	12 Ω
R570	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R572	ERG3FJ821	METAL	3W	5%	820 Ω ⚠
R574	ERG3FJ151	METAL	3W	5%	150 Ω ⚠
R579	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω

Cct Ref	Parts Number	Description			
R580	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R581	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R582	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R583	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R588	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R601	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R613	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R614	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R615	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R616	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R617	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R619	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R620	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R622	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R623	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R626	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R627	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R628	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R630	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R631	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R632	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R634	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R635	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R636	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R637	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R638	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R639	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R640	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R641	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R642	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R643	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R644	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R645	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R646	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R647	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R648	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R649	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R650	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R651	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R652	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R653	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R655	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R657	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R658	ERJ6ENF2212	S.M. CAR	0.1W	5%	220 Ω
R663	ERJ6GEYJ394	S.M.CARB	0.1W	5%	390K Ω
R664	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R666	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R667	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R674	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R675	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R676	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R677	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R678	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R679	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R680	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R681	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R682	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R683	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R684	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R685	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R686	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R688	ERJ6ENF3162	S.M. CAR	0.1W	5%	1K6 Ω
R701	ERQ1CJP5R6	METAL	1W	5%	5R6 Ω ⚠
R702	ERDS1TJ683	CARBON	0.5W	5%	68K Ω
R703	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R704	ERDS1TJ330	CARBON	0.5W	5%	33 Ω

Cct Ref	Parts Number	Description				
R705	ERD25TJ472	CARBON	0.25W	5%	4K7 Ω	
R806	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R807	ERD25TJ104	CARBON	0.25W	5%	100K Ω	
R809	ERF10ZK4R7	WOUND	10W	5%	4R7 Ω	⚠
R810	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R811	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R812	ERD25TJ681	CARBON	0.25W	5%	680 Ω	
R814	ERD25TJ392	CARBON	0.25W	5%	3K9 Ω	
R815	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R816	ERDS1TJ330	CARBON	0.5W	5%	33 Ω	
R818	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω	
R820	ERG3FJ223	METAL	3W	5%	22K Ω	⚠
R821	ERG3FJ223	METAL	3W	5%	22K Ω	⚠
R822	ERD25TJ391	CARBON	0.25W	5%	390 Ω	
R823	ERX12SJR22	METAL	0.5W	5%	R22 Ω	
R824	ERX12SJR22	METAL	0.5W	5%	R22 Ω	
R825	ERX12SJR22	METAL	0.5W	5%	R22 Ω	
R827	ERDS1FJ121	CARBON	0.5W	5%	120 Ω	⚠
R828	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R829	ERD25TJ221	CARBON	0.25W	5%	220 Ω	
R830	ERX12SJR22	METAL	0.5W	5%	R22 Ω	
R831	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω	⚠
R832	ERG3FJ331	METAL	3W	5%	330 Ω	⚠
R835	ERD25TJ220	CARBON	0.25W	5%	22 Ω	
R836	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R837	ERD25TJ183	CARBON	0.25W	5%	18K Ω	
R838	ERD25TJ821	CARBON	0.25W	5%	820 Ω	
R841	ERC12ZGK105D	SOLID	0.5W	10%	1M Ω	
R857	ERD25TJ221	CARBON	0.25W	5%	220 Ω	
R862	ERD25TJ272	CARBON	0.25W	5%	2K7 Ω	
R863	ERG3FJ680H	METAL	3W	5%	68 Ω	⚠
R864	ERDS1TJ682	CARBON	0.5W	5%	6K8 Ω	
R867	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R868	ERD25TJ151	CARBON	0.25W	5%	150 Ω	
R869	ERD25TJ560	CARBON	0.25W	5%	56 Ω	
R870	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R872	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R873	ERQ2CJP2R4	METAL	2W	5%	2R4 Ω	⚠
R876	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R877	ERO25CKF1022	METAL	0.25W	1%	10K2 Ω	⚠
R878	ERO25CKF1002	METAL	0.25W	1%	10K Ω	⚠
R883	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R885	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R886	ERX3SJR56	METAL	3W	5%	R56 Ω	
R888	ERDS1TJ393	CARBON	0.5W	5%	39K Ω	
R889	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω	
R891	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R892	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R894	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R897	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R899	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R901	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R902	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R903	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R904	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R906	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R907	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R908	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R909	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R910	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R911	ERD25TJ561	CARBON	0.25W	5%	560 Ω	
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R914	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω	
R915	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω	
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R917	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	

Cct Ref	Parts Number	Description				
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	⚠
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	⚠
R922	ERD25TJ683	CARBON	0.25W	5%	68K Ω	
R923	ERD25TJ683	CARBON	0.25W	5%	68K Ω	
R924	ERDS1FYJ330	CARBON	0.5W	5%	33 Ω	⚠
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R927	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω	
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R929	ERDS1FYJ471	CARBON	0.5W	5%	470 Ω	⚠
R931	ERDS1FYJ390	CARBON	0.5W	5%	39 Ω	⚠
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9 Ω	⚠
R936	ERQ1CJP102	FUSIBLE	1W	5%	1K Ω	⚠
R937	ERQ14AJW100	FUSIBLE	0.25W	5%	10 Ω	⚠
R938	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω	
R941	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R1011	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R1012	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R1013	ERD25TJ471	CARBON	0.25W	5%	470 Ω	
R1015	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R1071	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R1072	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω	
R1073	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω	
R1074	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω	
R1075	ERD25TJ512	CARBON	0.25W	5%	5K1 Ω	
R1076	ERD25TJ912	CARBON	0.25W	5%	9K1 Ω	
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1103	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1104	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1106	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1107	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1108	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1109	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1110	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1111	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1112	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1117	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R1118	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R1119	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R1120	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R1121	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1122	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1123	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω	
R1124	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1125	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1128	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1129	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1130	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1131	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1133	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1134	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1135	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω	
R1138	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R1139	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1140	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω	
R1141	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1142	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1143	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1144	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	

Cct Ref	Parts Number	Description			
R1145	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1148	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1149	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1150	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1151	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1152	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1153	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1154	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1155	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K Ω
R1156	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1157	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1158	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1160	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1161	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω
R1162	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1163	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1164	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1165	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1166	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R1167	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1168	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1169	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1170	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1171	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1172	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R1173	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R1174	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R1175	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1176	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1177	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1178	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1179	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1180	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1181	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1182	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1183	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1184	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1186	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1187	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1188	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1189	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1190	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1194	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R1195	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1200	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1237	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1238	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1239	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R1501	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1502	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1503	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1504	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1505	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1506	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1507	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1508	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1509	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1510	ERJ6GEYJ8R2	S.M. CAR	0.1W	5%	8R2 Ω
R1511	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1513	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1514	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω
R1515	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1517	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω
R1518	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω
R1519	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω
R1520	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1521	ERJ6GEYJ820	S.M.CARB	0.1W	5%	82 Ω
R1522	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1523	ERJ6GEYJ390	S.M.CARB	0.1W	5%	39 Ω
R1524	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R1525	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1526	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1527	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1528	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1530	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R1531	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1532	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1533	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R1534	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R1535	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1536	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R1537	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1538	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R1540	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1541	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1542	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1543	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1544	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω
R1545	ERJ6ENF3600	S.M. CAR	0.1W	5%	36 Ω
R1546	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω
R1547	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1548	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1550	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1551	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1552	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1553	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1554	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1555	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1556	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1559	ERJ6ENF2200	S.M. CAR	0.1W	5%	22 Ω
R1560	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R1561	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1562	ERJ6ENF4750	S.M. CAR	0.1W	5%	75 Ω
R1563	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1564	ERJ6ENF2200	S.M. CAR	0.1W	5%	22 Ω
R1565	ERJ6GEYJ820	S.M.CARB	0.1W	5%	82 Ω
R1566	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1567	ERJ6ENF1500	S.M. CAR	0.1W	5%	15 Ω
R1568	ERJ6ENF1500	S.M. CAR	0.1W	5%	15 Ω
R1569	ERJ6ENF1500	S.M. CAR	0.1W	5%	15 Ω
R1570	ERJ6ENF2701	S.M.CARB	0.1W	5%	27 Ω
R1571	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1572	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1573	ERJ6ENF1500	S.M. CAR	0.1W	5%	15 Ω
R1574	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R1575	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1576	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1577	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1578	ERJ6GEYJ301	S.M.CARB	0.1W	5%	300 Ω
R1579	ERJ6GEYJ431	S.M.CARB	0.1W	5%	430 Ω
R1580	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω
R1581	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1582	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1583	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω
R1584	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω
R1585	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1586	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1587	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1588	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1589	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω

Cct Ref	Parts Number	Description			
R1590	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1591	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1592	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1593	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1594	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1595	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1598	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1599	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1600	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1604	ERJ6GEYJ820	S.M.CARB	0.1W	5%	82 Ω
R1605	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R1606	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1607	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1609	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1610	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1611	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1613	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1614	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1615	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1616	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1617	ERJ6ENF1100	S.M. CAR	0.1W	5%	10 Ω
R1618	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1619	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1620	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1621	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1622	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1623	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1624	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω
R1625	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1626	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1627	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1628	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1629	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω
R1630	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1631	ERJ6ENF1500	S.M. CAR	0.1W	5%	15 Ω
R1632	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1633	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1634	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1635	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1636	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1637	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1639	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1640	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1641	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1642	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R1643	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1644	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R1645	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1646	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R1660	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1661	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1662	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1663	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1664	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1665	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1666	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1667	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1668	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1669	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1670	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1671	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1672	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1673	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1674	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1675	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
R1676	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R1677	ERJ6ENF6800	S.M. CAR	0.1W	5%	80 Ω
R1678	ERJ6ENF1500	S.M. CAR	0.1W	5%	15 Ω
R1679	ERJ6ENF1500	S.M. CAR	0.1W	5%	15 Ω
R1680	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1681	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1682	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1683	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1684	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1685	ERQ14AJ100	FUSIBLE	0.25W	5%	10 Ω ⚠
R1686	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1687	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1688	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1690	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1691	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1692	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1801	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1802	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1803	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1804	ERJ6GEYJ431	S.M.CARB	0.1W	5%	430 Ω
R1805	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1806	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1807	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1808	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1810	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1811	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1813	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1814	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1815	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1816	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1817	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1818	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1819	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1820	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1821	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1823	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1824	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1825	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1826	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1827	ERJ6GEYJ132	S.M. CAR	0.1W	5%	1K2 Ω
R1828	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1829	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1830	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1834	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1835	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω
R1839	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1840	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1841	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R1842	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1845	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1846	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1847	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1848	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1849	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1850	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1851	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1852	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1853	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1854	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R1855	ERJ6GEYJ911	S.M.CARB	0.1W	5%	910 Ω
R1856	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1857	ERC14GJ206D	SOLID	14W	5%	20M Ω
R1858	ERC14GJ206D	SOLID	14W	5%	20M Ω
R1901	ERDS1TJ100	CARBON	0.5W	5%	10 Ω
R1902	ERDS1TJ100	CARBON	0.5W	5%	10 Ω
R1903	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω

Cct Ref	Parts Number	Description			
R1904	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330K Ω
R1905	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R1906	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R1907	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1908	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1909	ERJ6GEYJ362	S.M. CAR	0.1W	5%	3K6 Ω
R1910	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1911	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1912	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1913	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2103	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2104	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2105	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2107	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2108	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2110	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2111	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2112	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2118	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2120	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2121	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2122	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2123	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2124	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2125	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2301	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2302	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2303	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2307	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2308	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2312	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R2314	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2315	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2316	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2318	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R2319	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2320	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2321	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2351	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2352	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2353	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2354	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2355	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2356	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2357	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2358	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2359	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R2361	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R2362	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2363	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2364	ERD25TJ101	CARBON	0.25W	5%	100 Ω
R2365	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2368	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2369	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2370	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2371	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2372	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2373	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2376	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description			
R2377	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2459	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2460	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2474	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2475	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3004	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R3005	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3006	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3007	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3008	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R3009	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R3010	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3011	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3012	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3014	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3015	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R3016	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω
R3017	ERJ6GEYJ390	S.M.CARB	0.1W	5%	39 Ω
R3018	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3020	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3021	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R3022	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω
R3023	ERQ14AJ390	FUSIBLE	0.25W	5%	39 Ω ⚠
R3024	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3025	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3026	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3027	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3028	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R3029	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3030	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3031	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3033	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3034	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3035	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3036	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3037	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3038	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R3039	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R3040	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3041	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3042	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3043	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3044	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3045	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3046	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3047	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3048	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3049	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3050	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3051	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3052	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3053	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22 Ω
R3055	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R3056	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R3057	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R3058	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3059	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3060	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3061	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R3062	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R3063	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R3064	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R3065	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω
R3066	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω

Cct Ref	Parts Number	Description				
R3067	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3068	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R3069	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R3070	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3071	ERJ6GEYJ621	S.M. CAR	0.1W	5%	620 Ω	
R3072	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3073	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R3074	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R3075	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3076	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R3077	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3078	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3079	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3080	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3081	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3082	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3087	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3125	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3126	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3281	ERD25TJ750	CARBON	0.25W	5%	75 Ω	
R3282	ERD25TJ750	CARBON	0.25W	5%	75 Ω	
R3284	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R3285	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R3351	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22 Ω	
R3352	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3353	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K Ω	
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R3356	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R3357	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R3358	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R3360	ERDS1TJ471	CARBON	0.5W	5%	470 Ω	
R3361	ERO50PKF1133	METAL	0.5W	5%	110K Ω	⚠
R3401	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3402	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3403	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3404	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3405	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3406	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3407	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3408	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3409	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3410	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3412	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3413	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3414	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3415	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3416	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3417	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3418	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3419	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3420	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3421	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3422	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3423	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3424	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3425	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R3426	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω	
R3427	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3428	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω	
R3429	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω	
R3430	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3431	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3432	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	

Cct Ref	Parts Number	Description				
R3433	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R3434	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3435	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω	
R3436	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3437	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3438	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3439	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3440	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3441	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3443	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3444	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3445	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3446	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3447	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3452	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3453	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3454	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3455	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3801	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3802	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R3803	ERG3FJ100	METAL	3W	5%	10 Ω	⚠
R3918	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R3919	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R3920	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3921	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3922	EVMEASA00B53	CONTROL			5K Ω	
R3923	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R3925	ERO25CKF1272	METAL	0.25W	5%	2K7 Ω	⚠
R3926	ERO25CKF3242	METAL	0.25W	5%	2K4 Ω	⚠
R3927	ERD25TJ103	CARBON	0.25W	5%	10K Ω	
R3928	ERDS1FJ103	CARBON	0.5W	5%	10K Ω	⚠
R3929	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3930	ERDS1FJ103	CARBON	0.5W	5%	10K Ω	⚠
R3931	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R3932	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3933	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3934	ERJ6GEYJ564	S.M.CARB	0.1W	5%	560K Ω	
R3935	ERDS1FJ561	CARBON	0.5W	5%	56 Ω	⚠
R3936	ERJ6GEYJ820	S.M.CARB	0.1W	5%	82 Ω	
R3938	EVMEASA00B53	CONTROL			5K Ω	
R3939	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3941	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3942	ERD25TJ123	CARBON	0.25W	5%	12K Ω	
R3943	ERDS1TJ104	CARBON	0.5W	5%	100K Ω	
R3944	ERJ6GEYJ125	S.M. CAR	0.1W	5%	1M2 Ω	
R3945	ERJ6GEYJ125	S.M. CAR	0.1W	5%	1M2 Ω	
R3946	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3947	ERG2FJ123H	METAL	2W	5%	12K Ω	⚠
R3949	ERDS1FJ332	CARBON	0.5W	5%	3K3 Ω	⚠
R3950	ERG3FJ102H	METAL	3W	5%	1K Ω	⚠
R3951	ERD25TJ334	CARBON	0.25W	5%	330K Ω	
R3952	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3953	ERG2FJ100H	METAL	2W	5%	10 Ω	⚠
R3954	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R3955	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R3956	ERD25TJ104	CARBON	0.25W	5%	100K Ω	
R3957	ERD25TJ104	CARBON	0.25W	5%	100K Ω	
R3958	ERD25TJ104	CARBON	0.25W	5%	100K Ω	
R3959	ERD25TJ104	CARBON	0.25W	5%	100K Ω	
R3960	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω	
R3961	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R3962	ERD25TJ563	CARBON	0.25W	5%	56K Ω	
R3963	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R3972	ERG2FJ471	METAL	2W	5%	470 Ω	⚠
R3973	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3974	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	

Cct Ref	Parts Number	Description				
R3975	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3976	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3978	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3981	ERQ14AJ220	FUSIBLE	0.25W	5%	22 Ω	⚠
R3982	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3983	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω	
R3984	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R3985	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3986	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3987	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R3988	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K Ω	
R3989	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R3990	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R3991	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3992	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3993	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3994	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	

CAPACITORS

Cct Ref	Parts Number	Description			
C002	ECA1HMR33GB	ELECT	50V	0.33U	
C003	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C004	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C005	ECA1CM221GB	ELECT	16V	220µF	
C006	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C007	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C008	ECUV1H561JCX	S.M. CAP	50V	560pF	
C009	ECA1CM221GB	ELECT	16V	220µF	
C010	ECA1HM4R7GB	ELECT	50V	4.7µF	
C011	ECUV1H100DCX	S.M. CAP	50V	10pF	
C012	ECUV1H100DCX	S.M. CAP	50V	10pF	
C013	ECA1CM470GB	ELECT	16V	47µF	
C014	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C015	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C017	ECUV1H100DCX	S.M. CAP	50V	10pF	
C018	ECJ2VF1H104Z	ELECT	350V	100nF	
C019	ECJ2VF1H104Z	ELECT	350V	100nF	
C103	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C104	ECJ2VF1H103Z	ELECT	350V	10nF	
C107	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C108	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C109	ECUV1C184KBX	S.M. CAP	16V	180nF	
C110	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C111	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C251	ECA1CM471GB	ELECT	16V	470µF	
C253	ECA1HM100GB	ELECT	50V	10µF	
C254	ECQM1H564J	FILM	50V	560nF	
C255	ECA1EHG101B	ELECT	50V	100nF	
C257	ECA1HM100GB	ELECT	50V	10µF	
C258	ECA1CM471GB	ELECT	16V	470µF	
C259	ECQM1H564J	FILM	50V	560nF	
C260	ECA1VM102GB	ELECT	35V	1nF	
C261	ECA1VM102GB	ELECT	35V	1nF	
C263	ECA1HM4R7GB	ELECT	50V	4.7µF	
C264	ECA1HM222E	ELECT	50V	2.2nF	
C266	ECA1HM4R7GB	ELECT	50V	4.7µF	
C267	ECQM1H224J	FILM	50V	220nF	
C268	ECQM1H224J	FILM	50V	220nF	
C269	ECA1HM470GB	ELECT	50V	47µF	
C270	ECQM1H224J	FILM	50V	220nF	
C271	ECQM1H224J	FILM	50V	220nF	
C277	ECUV1H102JCX	S.M. CAP	50V	1nF	
C278	ECUV1H102JCX	S.M. CAP	50V	1nF	
C281	ECA1HM010GB	ELECT	50V	1µF	
C282	ECA1HM010GB	ELECT	50V	1µF	
C283	ECJ2VF1H223Z	ELECT	350V	22nF	
C284	ECUV1H102KBX	S.M. CAP	50V	1nF	
C285	ECA1HM010GB	ELECT	50V	1µF	
C287	ECA1HM100GB	ELECT	50V	10µF	
C288	ECA1HM010GB	ELECT	50V	1µF	
C289	ECUV1H103KBX	S.M. CAP	50V	10nF	
C290	ECQM1H474J	FILM	50V	470nF	
C291	ECA1VM102GB	ELECT	35V	1nF	
C292	ECQM1H474J	FILM	50V	470nF	
C293	ECUV1H102JCX	S.M. CAP	50V	1nF	
C295	ECA50YT2R2KB	ELECT	50V	1nF	
C296	ECA50YT2R2KB	ELECT	50V	1nF	
C352	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C353	ECUV1H104KBX	S.M. CAP	50V	100nF	
C354	ECQM2104KZ	FILM	250V	100nF	
C355	ECKC2H102J	CERAMIC	500V	1nF	⚠
C362	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C363	ECUV1H104KBX	S.M. CAP	50V	100nF	
C364	ECQM2104KZ	FILM	250V	100nF	
C365	ECKC2H102J	CERAMIC	500V	1nF	⚠
C372	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C373	ECUV1H104KBX	S.M. CAP	50V	100nF	
C374	ECQM2104KZ	FILM	250V	100nF	
C375	ECKC2H102J	CERAMIC	500V	1nF	⚠
C381	ECA1HM101GB	ELECT	50V	100µF	
C382	ECA1CM471GB	ELECT	16V	470µF	
C383	ECUV1H103KBX	S.M. CAP	50V	10nF	
C384	ECQM2104KZ	FILM	250V	100nF	
C385	ECA2EM220B	ELECT	250V	22µF	
C386	ECKC3D392J	CERAMIC	2KV	22µF	⚠
C387	ECUV1H681JCX	S.M. CAP	50V	680pF	
C395	ECQM1H104J	FILM	50V	100nF	
C396	ECJ2VF1H104Z	ELECT	350V	100nF	
C397	ECKC3D222JB	CERAMIC	2KV	100nF	⚠
C400	ECA1VM102GB	ELECT	35V	1nF	
C402	ECA1HM010GB	ELECT	50V	1µF	
C403	ECQV1H105JZ	FILM	50V	1µF	
C404	ECEA1HU471	ELECT	50V	470µF	
C407	ECQB1224KFW	FILM	100V	220nF	
C411	ECUV1H102KBX	S.M. CAP	50V	1nF	
C501	ECQM1H224J	FILM	50V	220nF	
C502	ECQM2104KZ	FILM	250V	100nF	
C503	ECKC2H102J	CERAMIC	500V	1nF	⚠
C504	ECQB1H223K	FILM	50V	22nF	
C505	ECA1EM332E	ELECT	25V	22nF	
C506	ECKC2H102J	CERAMIC	500V	1nF	⚠
C507	ECA1EM332E	ELECT	25V	1nF	
C552	ECWH20102JVY	FILM	200V	1µF	
C553	ECQP1223JZW	FILM	100V	22nF	
C554	ECQB1H152K	FILM	50V	1.5nF	
C555	ECWH20622JVB	FILM	200V	6.2nF	
C556	ECEA2CNR47SB	ELECT	160V	6.2nF	
C557	ECKC2H331J	CERAMIC	500V	330pF	⚠
C558	ECA2EM330B	ELECT	250V	33µF	
C563	ECWF2564JBB	FILM	200V	560nF	⚠
C565	ECQP1223JZW	FILM	100V	22nF	
C566	ECKC2H222J	CERAMIC	500V	22nF	⚠
C572	ECWH20562JVB	FILM	200V	5.6nF	
C573	ECQF4103JZH	FILM	400V	10nF	
C574	ECWF4824JBB	FILM	400V	820nF	
C575	ECWF4474JBB	FILM	400V	470nF	
C581	ECQF4123JZH	FILM	400V	12nF	⚠
C584	ECKC3D391J	CERAMIC	2KV	390pF	⚠
C602	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C603	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C604	ECUV1H470JCX	S.M. CAP	50V	47pF	
C605	ECA1CM221GB	ELECT	16V	220µF	
C606	ECA1AM332E	ELECT	10V	220µF	
C607	ECUV1H104ZFX	S.M. CAP	50V	100nF	

Cct Ref	Parts Number	Description			
C608	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C609	ECA1HM3R3GB	ELECT	50V	3.3μF	
C610	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C611	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C612	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C613	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C614	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C615	ECJ2VB1C104K	ELECT	350V	100nF	
C616	ECQM1H104J	FILM	50V	100nF	
C617	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C618	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C620	ECUV1H100DCX	S.M. CAP	50V	10pF	
C622	ECUV1H470JCX	S.M. CAP	50V	47pF	
C623	ECUV1H470JCX	S.M. CAP	50V	47pF	
C624	ECUV1H820JCX	S.M. CAP	50V	82pF	
C625	ECUV1H470JCX	S.M. CAP	50V	47pF	
C626	ECUV1H470JCX	S.M. CAP	50V	47pF	
C627	ECUV1H470JCX	S.M. CAP	50V	47pF	
C628	ECUV1H470JCX	S.M. CAP	50V	47pF	
C632	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C633	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C634	ECUV1H222KBX	S.M. CAP	50V	2.2nF	
C635	ECA1EM101GB	ELECT	25V	100μF	
C636	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C637	ECUV1H470JCX	S.M. CAP	50V	47pF	
C638	ECUV1H270JCX	S.M. CAP	50V	27pF	
C639	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C641	ECUV1H101JCX	S.M. CAP	50V	100pF	
C643	ECUV1H102KBX	S.M. CAP	50V	1nF	
C644	ECQM1H104J	FILM	50V	100nF	
C645	ECQM1H104J	FILM	50V	100nF	
C646	ECUV1H103KBX	S.M. CAP	50V	10nF	
C651	ECUV1C224KBX	S.M. CAP	16V	220nF	
C701	ECQV1H105JZ	FILM	50V	1μF	
C702	ECKC2H102J	CERAMIC	500V	1nF	⚠
C806	ECQE6104K	FILM	600V	100nF	⚠
C807	ECQB1H473K	FILM	50V	47nF	
C808	ECQM1H334J	FILM	50V	330nF	
C811	ECQM1H104J	FILM	50V	100nF	
C812	ECQB1H562K	FILM	50V	5.6nF	
C813	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C814	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C815	ECA1CM331B	ELECT	16V	330μF	
C816	ECQB1H122J	FILM	50V	1.2nF	
C817	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C818	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C819	ECOS2WB221DB	ELECT	16V	220μF	
C820	ECOS2WB221DB	ELECT	16V	220μF	
C821	ECQB1H222J	FILM	50V	2.2nF	
C822	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C823	EEUFA1V221B	CERAMIC	35V	220μF	
C824	ECQB1H221KF3	FILM	50V	220μF	
C826	ECQB1H473K	FILM	50V	47nF	
C827	ECKCNS332J	CERAMIC	1.2KV	3.3nF	⚠
C830	ECQE6105JFW	FILM	600V	1μF	⚠
C831	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C833	ECQB1H682K	FILM	50V	6.8nF	
C835	ECQB1H332K	FILM	50V	3.3nF	
C840	ECQU2A224MN	FILM	250V	3.3nF	
C841	ECQU2A224MN	FILM	250V	3.3nF	
C842	ECQE2A474MWB	FILM	100V	470nF	
C843	ECQU2A154MN	FILM	250V	150nF	
C847	ECEA1EN101UB	ELECT	25V	100μF	
C848	ECKC2H331J	CERAMIC	500V	330pF	⚠
C849	ECKC2H391J	CERAMIC	500V	390pF	⚠
C852	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C853	ECEA1CU332	ELECT	16V	1nF	
C854	ECA1EM221GB	ELECT	25V	1nF	
C855	ECEA1HU102	ELECT	50V	1nF	
C856	ECA1EM222GB	ELECT	25V	1nF	
C857	ECA1EM471GB	ELECT	25V	470μF	
C858	ECOS2EA271BB	ELECT	250V	270μF	
C859	ECKC2H471J	CERAMIC	500V	470pF	⚠
C861	ECOS2EA221AB	ELECT	250V	220μF	
C863	ECA1EM332E	ELECT	25V	220μF	
C864	ECA0JM102GB	ELECT	6.3V	220μF	
C866	ECA1HM101GB	ELECT	50V	100μF	
C867	ECA1CM222E	ELECT	16V	2.2nF	
C868	ECA1CM100GB	ELECT	16V	10μF	
C869	ECA1HM101GB	ELECT	50V	100μF	
C871	ECA0JM102GB	ELECT	6.3V	100μF	
C872	ECA1CM222E	ELECT	16V	2.2nF	
C901	ECUV1H030CCX	S.M. CAP	50V	30pF	
C902	ECA1VM101GB	ELECT	35V	100μF	
C904	ECJ2VF1H103Z	ELECT	350V	10nF	
C906	ECUV1H681KBX	S.M. CAP	50V	10nF	
C907	ECUV1H121JCX	S.M. CAP	50V	120pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECA2EM220B	ELECT	250V	22μF	
C913	ECA1HM101GB	ELECT	50V	100μF	
C914	ECA1HM101GB	ELECT	50V	100μF	
C916	ECA2EM220B	ELECT	250V	22μF	
C917	ECA1HM100GB	ELECT	50V	10μF	
C918	ECJ2VF1H103Z	ELECT	350V	10nF	
C1011	ECKC1H101J	CERAMIC	50V	100pF	
C1012	ECA1VM470B	ELECT	35V	47μF	
C1013	ECKC1H103JB	CERAMIC	50V	10nF	
C1101	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1102	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1107	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1108	ECUV1C104KBX	S.M. CAP	16V	100nF	
C1109	ECUV1C104KBX	S.M. CAP	16V	100nF	
C1113	ECUV1C104KBX	S.M. CAP	16V	100nF	
C1114	ECA1HM101GB	ELECT	50V	100μF	
C1116	ECUV1H560JCX	S.M. CAP	50V	56pF	
C1117	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1118	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1120	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1121	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C1122	ECA1HM010GB	ELECT	50V	1μF	
C1123	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1124	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1125	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1126	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1127	ECA1HM101GB	ELECT	50V	100μF	
C1128	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1129	ECA1HM101GB	ELECT	50V	100μF	
C1130	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1131	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1138	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C1145	ECJ2VB1H333K	ELECT	350V	33nF	
C1147	ECA1CM331B	ELECT	16V	330μF	
C1148	ECUV1C224KBX	S.M. CAP	16V	220nF	
C1501	ECUV1H330JCX	S.M. CAP	50V	33pF	
C1502	ECUV1H471JCX	S.M. CAP	50V	470pF	
C1503	ECUV1H390JCX	S.M. CAP	50V	39pF	
C1504	ECUV1H680JCX	S.M. CAP	50V	68pF	

Cct Ref	Parts Number	Description		
C1505	ECUV1H820JCX	S.M. CAP	50V	82pF
C1506	ECUV1H331JCX	S.M. CAP	50V	330pF
C1507	ECUV1H102KBX	S.M. CAP	50V	1nF
C1508	ECEA1HN010UB	ELECT	50V	1µF
C1509	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1510	ECA1HM101GB	ELECT	50V	100µF
C1511	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1512	ECUV1H030CCX	S.M. CAP	50V	30pF
C1513	ECA1HM100GB	ELECT	50V	10µF
C1514	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1515	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1516	ECUV1H030CCX	S.M. CAP	50V	30pF
C1517	ECUV1H473ZFX	S.M. CAP	50V	47nF
C1518	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1519	ECA1HM101GB	ELECT	50V	100µF
C1521	ECA1HM101GB	ELECT	50V	100µF
C1522	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1523	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1524	ECA1VM470B	ELECT	35V	47µF
C1525	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1527	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1528	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1529	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1530	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1532	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1533	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1534	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1535	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1536	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1537	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1538	EEUNA1E220B	CERAMIC	25V	22µF
C1539	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1540	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1541	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1542	ECA1CM471GB	ELECT	16V	470µF
C1543	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1544	EEUNA1E220B	CERAMIC	25V	22µF
C1545	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1546	ECA1HM101GB	ELECT	50V	100µF
C1547	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1548	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1549	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1550	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1551	EEUNA1E220B	CERAMIC	25V	22µF
C1552	ECA1HM101GB	ELECT	50V	100µF
C1553	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1554	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1555	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1556	ECA1HM101GB	ELECT	50V	100µF
C1557	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1558	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1559	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1560	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1561	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1562	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1563	ECA1HM101GB	ELECT	50V	100µF
C1564	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1565	ECUV1H270JCX	S.M. CAP	50V	27pF
C1567	ECA1HM101GB	ELECT	50V	100µF
C1568	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1569	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1570	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1571	ECA1CM471GB	ELECT	16V	470µF
C1572	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1573	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1574	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1575	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1576	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1577	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1578	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1579	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1580	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1581	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1582	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1583	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1584	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1585	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1586	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1587	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1588	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1589	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1590	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1591	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1592	ECA1CM221GB	ELECT	16V	220µF
C1593	ECA1CM221GB	ELECT	16V	220µF
C1594	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1595	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1596	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1597	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1598	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1599	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1600	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1601	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1602	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1603	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1604	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1605	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1606	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1607	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1608	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1609	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1610	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1611	ECA1CM471GB	ELECT	16V	470µF
C1612	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1614	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1615	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1616	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1617	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1618	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1619	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1620	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1621	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1622	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1623	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1624	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1625	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1626	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1627	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1628	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1629	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1630	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1631	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1632	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1633	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1636	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1637	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1638	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1639	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1642	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1643	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1644	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1645	ECUV1H104ZFX	S.M. CAP	50V	100nF

Cct Ref	Parts Number	Description		
C1647	ECUV1H470JCX	S.M. CAP	50V	47pF
C1648	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1649	ECA1HM101GB	ELECT	50V	100μF
C1650	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1651	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1652	ECA1HM101GB	ELECT	50V	100μF
C1653	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1654	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1655	ECA1VM470B	ELECT	35V	47μF
C1656	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1658	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1659	ECA1VM470B	ELECT	35V	47μF
C1660	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1661	ECA1HM101GB	ELECT	50V	100μF
C1662	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1663	ECUV1H820JCX	S.M. CAP	50V	82pF
C1664	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1666	ECUV1H390JCX	S.M. CAP	50V	39pF
C1667	ECUV1H820JCX	S.M. CAP	50V	82pF
C1668	ECUV1H680JCX	S.M. CAP	50V	68pF
C1669	ECUV1H271JCX	S.M. CAP	50V	270pF
C1670	ECUV1H391JCX	S.M. CAP	50V	390pF
C1671	ECUV1H390JCX	S.M. CAP	50V	39pF
C1672	ECUV1H820JCX	S.M. CAP	50V	82pF
C1673	ECUV1H680JCX	S.M. CAP	50V	68pF
C1674	ECUV1H271JCX	S.M. CAP	50V	270pF
C1675	ECUV1H391JCX	S.M. CAP	50V	390pF
C1676	ECUV1H390JCX	S.M. CAP	50V	39pF
C1677	ECUV1H820JCX	S.M. CAP	50V	82pF
C1678	ECUV1H680JCX	S.M. CAP	50V	68pF
C1679	ECUV1H271JCX	S.M. CAP	50V	270pF
C1680	ECUV1H391JCX	S.M. CAP	50V	390pF
C1681	ECUV1H820JCX	S.M. CAP	50V	82pF
C1682	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1683	ECUV1H101JCX	S.M. CAP	50V	100pF
C1685	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1686	ECUV1H101JCX	S.M. CAP	50V	100pF
C1688	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1689	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1690	ECJ2VF1C105Z	ELECT	350V	1μF
C1691	ECJ2VF1C105Z	ELECT	350V	1μF
C1692	EEUNA1E220B	CERAMIC	25V	22μF
C1693	ECA1HM101GB	ELECT	50V	100μF
C1696	EEUNA1E220B	CERAMIC	25V	22μF
C1697	EEUNA1E220B	CERAMIC	25V	22μF
C1698	EEUNA1E220B	CERAMIC	25V	22μF
C1801	ECA1HM101GB	ELECT	50V	100μF
C1802	ECA1HM101GB	ELECT	50V	100μF
C1803	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1804	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1805	ECUV1H150JCX	S.M. CAP	50V	15pF
C1806	ECUV1H150JCX	S.M. CAP	50V	15pF
C1807	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1808	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1809	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1810	ECA1HM101GB	ELECT	50V	100μF
C1811	ECUV1H220JCX	S.M. CAP	50V	22pF
C1812	ECJ2VB1C104K	ELECT	350V	100nF
C1813	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1814	ECUV1H040CCX	S.M. CAP	50V	4μF
C1815	ECUV1H220JCX	S.M. CAP	50V	22pF
C1816	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1817	ECUV1H331JCX	S.M. CAP	50V	330pF
C1818	ECJ2VB1C104K	ELECT	350V	100nF
C1819	ECA1HM101GB	ELECT	50V	100μF
C1820	ECUV1H680JCX	S.M. CAP	50V	68pF
C1821	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1823	ECUV1H331JCX	S.M. CAP	50V	330pF
C1824	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1825	ECUV1C104KBX	S.M. CAP	16V	100nF
C1826	ECUV1C104KBX	S.M. CAP	16V	100nF
C1827	ECUV1C104KBX	S.M. CAP	16V	100nF
C1828	ECUV1H150JCX	S.M. CAP	50V	15pF
C1829	ECUV1C104KBX	S.M. CAP	16V	100nF
C1830	ECUV1C104KBX	S.M. CAP	16V	100nF
C1831	ECUV1C104KBX	S.M. CAP	16V	100nF
C1832	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1833	ECUV1H180JCX	S.M. CAP	50V	18pF
C1834	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1835	ECUV1C104KBX	S.M. CAP	16V	100nF
C1836	ECUV1H332KBX	S.M. CAP	50V	3.3nF
C1837	ECUV1C104KBX	S.M. CAP	16V	100nF
C1838	ECUV1C104KBX	S.M. CAP	16V	100nF
C1840	ECUV1H332KBX	S.M. CAP	50V	3.3nF
C1842	ECA1HM101GB	ELECT	50V	100μF
C1843	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1847	ECUV1H331JCX	S.M. CAP	50V	330pF
C1848	ECUV1H102KBX	S.M. CAP	50V	1nF
C1849	ECUV1H102KBX	S.M. CAP	50V	1nF
C1901	ECQM1H474J	FILM	50V	470nF
C1902	ECQM1H474J	FILM	50V	470nF
C1903	ECA1EM470GB	ELECT	25V	47μF
C1904	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1905	ECUV1C224KBX	S.M. CAP	16V	220nF
C2103	ECUV1H391KBX	S.M. CAP	50V	390pF
C2104	ECUV1H102KBX	S.M. CAP	50V	1nF
C2105	ECUV1H102KBX	S.M. CAP	50V	1nF
C2106	ECUV1H102KBX	S.M. CAP	50V	1nF
C2107	ECUV1H102KBX	S.M. CAP	50V	1nF
C2108	ECUV1H102KBX	S.M. CAP	50V	1nF
C2109	ECUV1H102KBX	S.M. CAP	50V	1nF
C2110	ECUV1H102KBX	S.M. CAP	50V	1nF
C2111	ECA1CM100GB	ELECT	16V	10μF
C2112	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2113	ECA1CM100GB	ELECT	16V	10μF
C2114	ECA1HM101GB	ELECT	50V	100μF
C2115	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2116	ECUV1H102KBX	S.M. CAP	50V	1nF
C2117	ECUV1H471KBX	S.M. CAP	50V	470pF
C2118	ECA1HM3R3GB	ELECT	50V	3.3μF
C2119	ECUV1H471KBX	S.M. CAP	50V	470pF
C2120	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2121	ECUV1H221JCX	S.M. CAP	50V	220pF
C2122	ECUV1H221JCX	S.M. CAP	50V	220pF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2125	ECA1CM100GB	ELECT	16V	10μF
C2126	ECUV1H221JCX	S.M. CAP	50V	220pF
C2127	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2128	ECUV1H221JCX	S.M. CAP	50V	220pF
C2129	ECA1CM100GB	ELECT	16V	10μF
C2130	ECUV1H221JCX	S.M. CAP	50V	220pF
C2131	ECQM1H334J	FILM	50V	330nF
C2132	ECA1CM100GB	ELECT	16V	10μF
C2133	ECUV1H470JCX	S.M. CAP	50V	47pF
C2134	ECUV1H470JCX	S.M. CAP	50V	47pF
C2135	ECUV1H070DCX	S.M. CAP	50V	7pF
C2137	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2138	ECUV1H010CCX	S.M. CAP	50V	1pF
C2139	ECUV1H010CCX	S.M. CAP	50V	1pF
C2141	ECUV1H560JCX	S.M. CAP	50V	56pF
C2142	ECA1CM100GB	ELECT	16V	10μF

Cct Ref	Parts Number	Description		
C2144	ECUV1H560JCX	S.M. CAP	50V	56pF
C2146	ECA1CM100GB	ELECT	16V	10µF
C2147	ECUV1H103KBX	S.M. CAP	50V	10nF
C2148	ECUV1H103KBX	S.M. CAP	50V	10nF
C2301	ECA1CM470GB	ELECT	16V	47µF
C2302	ECA1CM470GB	ELECT	16V	47µF
C2307	ECUV1H103KBX	S.M. CAP	50V	10nF
C2308	ECUV1H103KBX	S.M. CAP	50V	10nF
C2353	ECA1CM471GB	ELECT	16V	470µF
C2356	ECA1HM4R7GB	ELECT	50V	4.7µF
C2357	ECUV1H151JCX	S.M. CAP	50V	150pF
C2358	ECUV1H151JCX	S.M. CAP	50V	150pF
C2359	ECA1HM4R7GB	ELECT	50V	4.7µF
C2361	ECA1CM470GB	ELECT	16V	47µF
C2362	ECA1HM101GB	ELECT	50V	100µF
C2363	ECEA1HU221	ELECT	50V	100µF
C2364	ECEA1HU221	ELECT	50V	100µF
C2365	ECA1HM101GB	ELECT	50V	100µF
C2366	ECA0JM222GB	ELECT	6.3V	2.2nF
C2367	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2370	ECA1HM100GB	ELECT	50V	10µF
C2371	ECUV1H472KBX	S.M. CAP	50V	4.7nF
C2372	ECUV1H472KBX	S.M. CAP	50V	4.7nF
C2375	ECUV1H104ZFX	S.M. CAP	50V	100nF
C2377	ECKC1H102J	CERAMIC	50V	1nF
C2378	ECKC1H102J	CERAMIC	50V	1nF
C2381	ECKC1H103JB	CERAMIC	50V	10nF
C2382	ECKC1H103JB	CERAMIC	50V	10nF
C2430	ECUV1H561JCX	S.M. CAP	50V	560pF
C2431	ECUV1H561JCX	S.M. CAP	50V	560pF
C2437	ECUV1H561JCX	S.M. CAP	50V	560pF
C2438	ECUV1H561JCX	S.M. CAP	50V	560pF
C2501	ECA1HM101GB	ELECT	50V	100µF
C3001	ECUV1H103ZFX	S.M. CAP	50V	10nF
C3002	ECA1CM470GB	ELECT	16V	47µF
C3003	ECUV1H102ZFX	S.M. CAP	50V	1nF
C3004	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3005	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3006	ECA1HM4R7GB	ELECT	50V	4.7µF
C3007	ECA1HM4R7GB	ELECT	50V	4.7µF
C3008	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3009	ECUV1H473ZFX	S.M. CAP	50V	47nF
C3010	ECUV1H680JCX	S.M. CAP	50V	68pF
C3011	ECA1CM221GB	ELECT	16V	220µF
C3012	ECA1CM470GB	ELECT	16V	47µF
C3013	ECA1CM470GB	ELECT	16V	47µF
C3014	EEUNA1A470B	CERAMIC	10V	47µF
C3015	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3016	ECA1CM470GB	ELECT	16V	47µF
C3017	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3018	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3019	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3020	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3021	ECA1CM331B	ELECT	16V	330µF
C3022	ECA1CM102B	ELECT	16V	330µF
C3023	ECA1HM100GB	ELECT	50V	10µF
C3024	ECA1HM2R2GB	ELECT	50V	2.2µF
C3025	ECA1CM470GB	ELECT	16V	47µF
C3027	ECJ2VF1H104Z	ELECT	350V	100nF
C3028	ECUV1H470JRX	S.M. CAP	50V	100nF
C3120	ECUV1H103KBX	S.M. CAP	50V	10nF
C3122	ECUV1H102KBX	S.M. CAP	50V	1nF
C3123	ECUV1H103KBX	S.M. CAP	50V	10nF
C3124	ECUV1H102KBX	S.M. CAP	50V	1nF
C3255	ECA1HM4R7GB	ELECT	50V	4.7µF
C3256	ECA1HM4R7GB	ELECT	50V	4.7µF

Cct Ref	Parts Number	Description		
C3282	ECKC1H561J	CERAMIC	50V	560pF
C3284	ECKC1H561J	CERAMIC	50V	560pF
C3351	ECA1CM221GB	ELECT	16V	220µF
C3401	ECEA1HKA100	ELECT	50V	220µF
C3402	ECUV1H561JCX	S.M. CAP	50V	560pF
C3403	ECUV1H561JCX	S.M. CAP	50V	560pF
C3404	ECUV1H561JCX	S.M. CAP	50V	560pF
C3405	ECUV1H561JCX	S.M. CAP	50V	560pF
C3406	ECUV1H561JCX	S.M. CAP	50V	560pF
C3407	ECUV1H561JCX	S.M. CAP	50V	560pF
C3408	ECUV1H561JCX	S.M. CAP	50V	560pF
C3409	ECEA1HKA4R7	ELECT	50V	560pF
C3410	ECEA1HKA100	ELECT	50V	560pF
C3411	ECUV1H561JCX	S.M. CAP	50V	560pF
C3412	ECEA1HKA4R7	ELECT	50V	560pF
C3413	ECUV1H102JCX	S.M. CAP	50V	1nF
C3414	ECEA1HKA100	ELECT	50V	1nF
C3415	ECEA1HKA100	ELECT	50V	1nF
C3416	ECEA1HKA4R7	ELECT	50V	1nF
C3417	ECEA1HKA100	ELECT	50V	1nF
C3418	ECEA1HKA100	ELECT	50V	1nF
C3419	ECUV1H561JCX	S.M. CAP	50V	560pF
C3420	ECUV1H561JCX	S.M. CAP	50V	560pF
C3421	ECUV1H561JCX	S.M. CAP	50V	560pF
C3422	ECUV1H561JCX	S.M. CAP	50V	560pF
C3423	ECUV1H561JCX	S.M. CAP	50V	560pF
C3424	ECUV1H561JCX	S.M. CAP	50V	560pF
C3425	ECUV1H561JCX	S.M. CAP	50V	560pF
C3426	ECUV1H561JCX	S.M. CAP	50V	560pF
C3427	ECUV1H102JCX	S.M. CAP	50V	1nF
C3428	ECEA1HKA4R7	ELECT	50V	1nF
C3429	ECEA1CKA220	ELECT	16V	1nF
C3430	ECEA1HKA4R7	ELECT	50V	1nF
C3431	ECEA1CN470	ELECT	16V	47µF
C3432	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3433	ECA1CM221GB	ELECT	16V	220µF
C3434	ECUV1H561JCX	S.M. CAP	50V	560pF
C3435	ECEA1HKA100	ELECT	50V	560pF
C3436	ECUV1H561JCX	S.M. CAP	50V	560pF
C3437	ECUV1H561JCX	S.M. CAP	50V	560pF
C3438	ECEA1HKA4R7	ELECT	50V	560pF
C3439	ECUV1H561JCX	S.M. CAP	50V	560pF
C3440	ECUV1H561JCX	S.M. CAP	50V	560pF
C3441	ECEA1HKA100	ELECT	50V	560pF
C3442	ECUV1H561JCX	S.M. CAP	50V	560pF
C3443	ECUV1H561JCX	S.M. CAP	50V	560pF
C3444	ECEA1HKA4R7	ELECT	50V	560pF
C3445	ECUV1H102JCX	S.M. CAP	50V	1nF
C3446	ECEA1HKA4R7	ELECT	50V	1nF
C3447	ECUV1H561JCX	S.M. CAP	50V	560pF
C3460	ECUV1H561JCX	S.M. CAP	50V	560pF
C3461	ECUV1H561JCX	S.M. CAP	50V	560pF
C3496	ECUV1H561JCX	S.M. CAP	50V	560pF
C3497	ECUV1H561JCX	S.M. CAP	50V	560pF
C3498	ECUV1H561JCX	S.M. CAP	50V	560pF
C3802	ECA1CM100GB	ELECT	16V	10µF
C3803	ECA1EM100GB	ELECT	25V	0.1µF
C3804	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3805	ECUV1H224ZFX	S.M. CAP	50V	220nF
C3806	ECA1HM101GB	ELECT	50V	100µF
C3807	ECA1HM100GB	ELECT	50V	10µF
C3808	ECA1CM470GB	ELECT	16V	47µF
C3810	ECUV1H103KBX	S.M. CAP	50V	10nF
C3814	ECA1HM010GB	ELECT	50V	1µF
C3816	ECA1CM471GB	ELECT	16V	470µF
C3817	ECA1CM221GB	ELECT	16V	220µF

Cct Ref	Parts Number	Description			
C3818	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3819	ECA1HM010GB	ELECT	50V	1μF	
C3821	ECA1HM010GB	ELECT	50V	1μF	
C3823	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3824	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3825	ECJ2VB1C224K	ELECT	350V	220nF	
C3826	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3827	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C3909	ECQB1H153K	FILM	50V	15nF	
C3910	ECA1HM010GB	ELECT	50V	1μF	
C3911	ECQB1H153K	FILM	50V	15nF	
C3912	ECQM1222JZ	FILM	100V	2.2nF	
C3913	ECQV1H105JZ	FILM	50V	1μF	
C3914	ECA1CM331B	ELECT	16V	330μF	
C3915	ECQB1H103J	FILM	50V	10nF	
C3916	ECQM1H154J	FILM	50V	150nF	
C3917	ECQB1H683K	FILM	50V	68nF	
C3918	ECQB1H222J	FILM	50V	2.2nF	
C3919	ECQB1H333J	FILM	50V	33nF	
C3920	ECQB1H332K	FILM	50V	3.3nF	
C3922	ECKC3A182J	CERAMIC	1KV	3.3nF	⚠
C3923	ECEA1HN100UB	ELECT	50V	10μF	
C3924	ECKC3A122J	CERAMIC	1KV	10μF	⚠
C3925	ECKC3A151J	CERAMIC	1KV	150pF	⚠
C3926	ECKC3A681J	CERAMIC	1KV	680pF	⚠
C3927	ECA1HM010GB	ELECT	50V	1μF	
C3928	ECQM4223JZW	FILM	400V	22nF	
C3929	ECQM4223JZW	FILM	400V	22nF	
C3931	ECKC3D101J	CERAMIC	2KV	100pF	⚠
C3932	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3933	ECKC3A471J	CERAMIC	1KV	470pF	⚠
C3936	ECA2CM330B	ELECT	160V	33μF	
C3937	ECQM1H104J	FILM	50V	100nF	
C3939	ECA1HM3R3GB	ELECT	50V	3.3μF	
C3940	ECA1CMH471B	ELECT	16V	470μF	
C3941	ECA1HMHR47B	ELECT	50V	470μF	
C3942	ECEA1HN010UB	ELECT	50V	1μF	
C3943	ECUV1H101JCX	S.M. CAP	50V	100pF	
C3944	ECQB1H103J	FILM	50V	10nF	
C3945	ECA1HM100GB	ELECT	50V	10μF	
C3946	ECQB1H333J	FILM	50V	33nF	
C3947	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C3948	ECQV1H105JZ	FILM	50V	1μF	
C3955	ECQB1H563K	FILM	50V	56nF	

TERMINALS AND LINKS

JK2403	TJB8E014	RCA TERMINAL(2P)	
JK3281	TJB16656	A.V. TERMINAL	
JK3401	1364-21-21	SCART SOCKET	
JK3402	1364-21-21	SCART SOCKET	
JK3403	1364-21-21	SCART SOCKET	
R847	TSF19252	FS LINK	⚠
R848	TSF19402	FS LINK	⚠
R1914	TSF19161	FS LINK	⚠

SWITCHES

S840	ESB92S11B	SWITCH	⚠
S1071	EVQPB105K	SWITCH	
S1072	EVQPB105K	SWITCH	
S1073	EVQPB105K	SWITCH	
S1074	EVQPB105K	SWITCH	
S1075	EVQPB105K	SWITCH	

DIFFERENCES FOR MODEL TX-32PF10F

MECHANICAL PARTS

Cct Ref	Parts Number	Description	
18	W76LPX555X05	C.R.T.	
19	TTYA0339-2	CABINET	
20	EASG12D123K2	CENTRE SPEAKER	
21	TMWA002-3	CONTROL BRACKET	
22	TNPA0876AB	D P.C.B.	⚠
23	TLK8E05123	DEGAUSS COIL	⚠
24	TNPH0176BA	E P.C.B.	⚠
25	TKPA27501	FRONT PANEL	
26	TNP8EM018AA	M P.C.B.	⚠
27	TQF8E2777	MODEL LABEL	⚠
28	TBMA060	PANASONIC BADGE	
29	TTUA0270	REAR COVER	
30	TNPA1353AA	Y P.C.B.	⚠

MISCELLANEOUS COMPONENTS

	TLK8E05124	GEOMAGNETIC COIL	⚠
	TPC8E4762	OUTER CARTON	
	TPD8E694	TOP CUSHION	
	TPD8E695	CUSHION BOTTOM	
	TPD8E696	SUB CUSHION	

I.C.s

IC1102	X24C0502TD	EAROM *
IC1104	27C2001-H07	EPROM *

DIFFERENCES FOR MODEL TX-36PF10F

MECHANICAL PARTS

18	W86LPX555X05	C.R.T.	
19	TTYA0338-2	CABINET	
20	EASG12D123L2	CENTRE SPEAKER	
21	TMWA013-1	CONTROL BRACKET	
22	TNPA0876AE	D P.C.B.	⚠
23	TXFLK01BUZG	DEGAUSS COIL	⚠
24	TNPH0176BD	E P.C.B.	⚠
25	TKPA27301	FRONT PANEL	
26	TNP8EM018AB	M P.C.B.	⚠
27	TQF8E2774	MODEL LABEL	⚠
28	TBMA059	PANASONIC BADGE	
29	TTUA0269	REAR COVER	
30	TNPA1353AJ	Y P.C.B.	⚠

MISCELLANEOUS COMPONENTS

	TPC8E4761	OUTER CARTON
	TPD169487	CARTON HANDLE
	TPD8E691	TOP CUSHION
	TPD8E692	BOTTOM CUSHION
	TPD8E693	SUB CUSHION

I.C.s

IC1102	X24C0502UD	EAROM *
IC1104	27C2001-H08	EPROM *

RESISTORS

R274	ERJ6GEYJ5R6	S.M.CARB	0.5W	5%	5R6 Ω
R275	ERJ6GEYJ5R6	S.M.CARB	0.5W	5%	5R6 Ω

CAPACITORS

C262	ECA1HM3R3GB	ELECT	50V	3.3μF
C265	ECA1HM3R3GB	ELECT	50V	3.3μF

NOTES

SCHEMATIC DIAGRAMS FOR MODELS

TX-36PF10F
TX-32PF10F

(EURO-5 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTES

1. RESISTOR
   All resistors are carbon ¼W resistor, unless marked otherwise.
   Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)

2. CAPACITORS
   All capacitors are ceramic 50V unless marked otherwise
   Unit of capacitance is µF unless otherwise stated.

3. COIL
   Unit of inductance is µH, unless otherwise stated.
4. Components marked "L" on the schematic diagram shows leadless parts.
5. TEST POINT
   ○ Test Point Position

6. EARTH SYMBOL
   ⏚ Chassis Earth (Cold) ⏚ Line Earth (Hot)

7. VOLTAGE MEASUREMENT
   Voltage is measured by a d.c. voltmeter
   Measurement conditions are as follows:

Power source	a.c. 220V-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

8. ➡ Indicates the Video signal path

   ⇨ Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

1. The Power Supply Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits except the Power Circuit, are COLD. Take the following precautions :-

a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simutaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

ZEICHENERKLÄRUNG FÜR MODELL

TX-36PF10F
TX-32PF10F

(EURO-5 CHASSIS)

WICHTIGER SICHERHEITSHINWEIS

Teile, die mit einen Hinweis ⚠ gekennzeichnet sind, sind wichtig für die Sicherheit, Sollte ein Auswechsein erforderlich sein, sind unbedingt Originalteile einzusetzen.

ANMERKUNG

1. WIDERSTÄNDE
   Alle ¼W Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.
   Die Maßeinheit ist OHM (Ω) (k=1,000, M=1,000,000)

2. KONDENSATOREN
   Alle Kondensatoren sind Keramikausführungen. Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet. Die Maßeinheit ist µF, wenne keine anderen Bezeichnungen gennant sind.
3. SPULEN
   Die Maßeinheit ist µH, Abweichungen sind gekennzeichnet.
4. Mit "L" gekennzeichnete Teile sind ohne Anschlußdrähte.

5. TESTPUNKTE
   ○ Kennzeichnung der Testpunktposition

6. MASSE SYMBOL
   ⏚ Erdung am Chassis ⏚ Erdung an Masse-Leitung

7. SPANNUNGSMESSUNG
   Spannungsmessungen sind mit einem d.c.-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:

Netzspannung	a.c. 220V-240V, 50Hz
Wiedregabe Signal	Farbbalken-Testbild
Wiedergabesignal	Farbbalken-Testbild (HF)

8. ➡ Videosignalweg

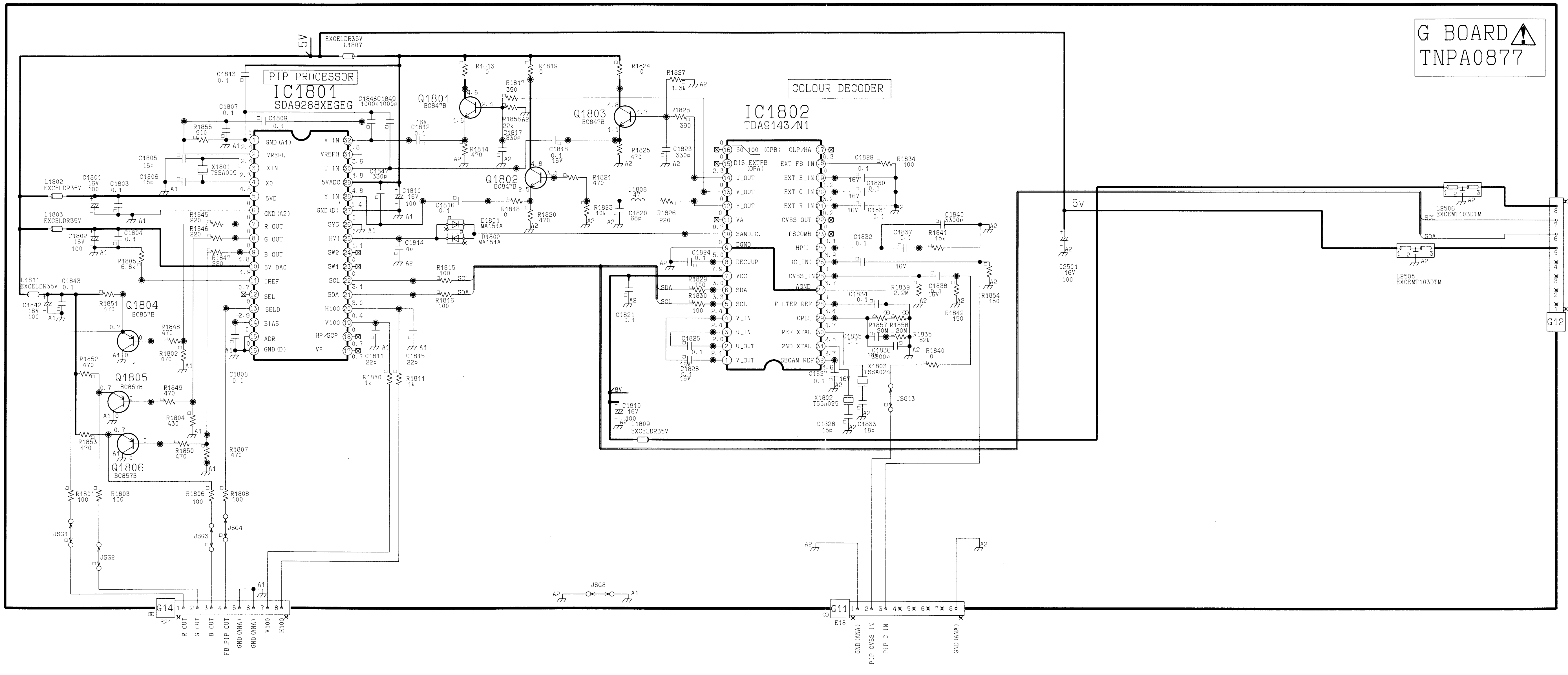
   ⇨ Audiosignalweg

Änderungen im Laufe der Fertigung sind möglich.

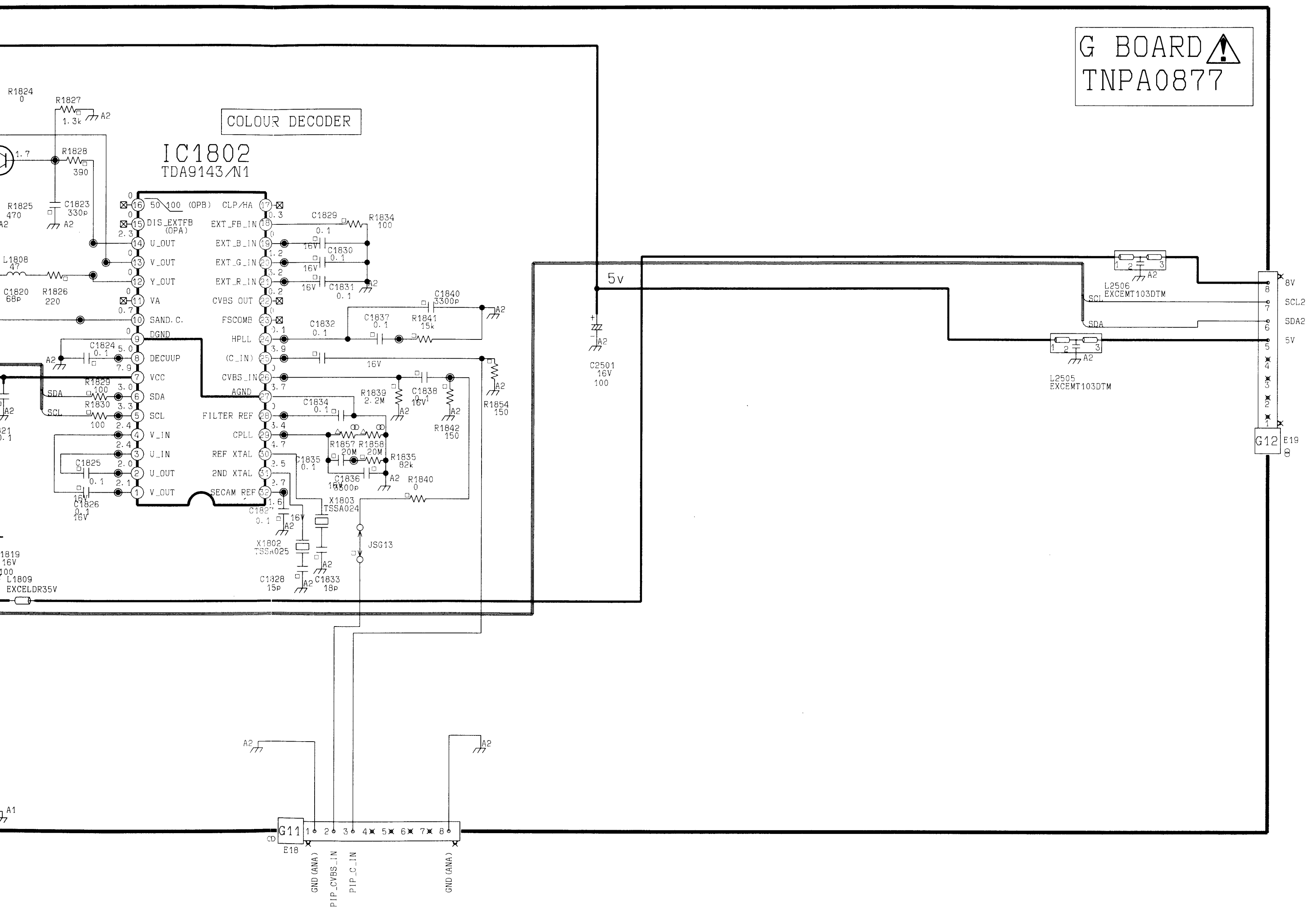
BEMERKUNGEN

1. Das Schaltnetzteil enthält Bereiche, die direkt mit dem Netz verbunden sind. Diese Bereiche sind im Schaltplan mit HOT gekennzeichnet. Alle anderen Schaltungen sind mit COLD gekennzeichnet und haben keine direkte Verbindung mit den Netz :-

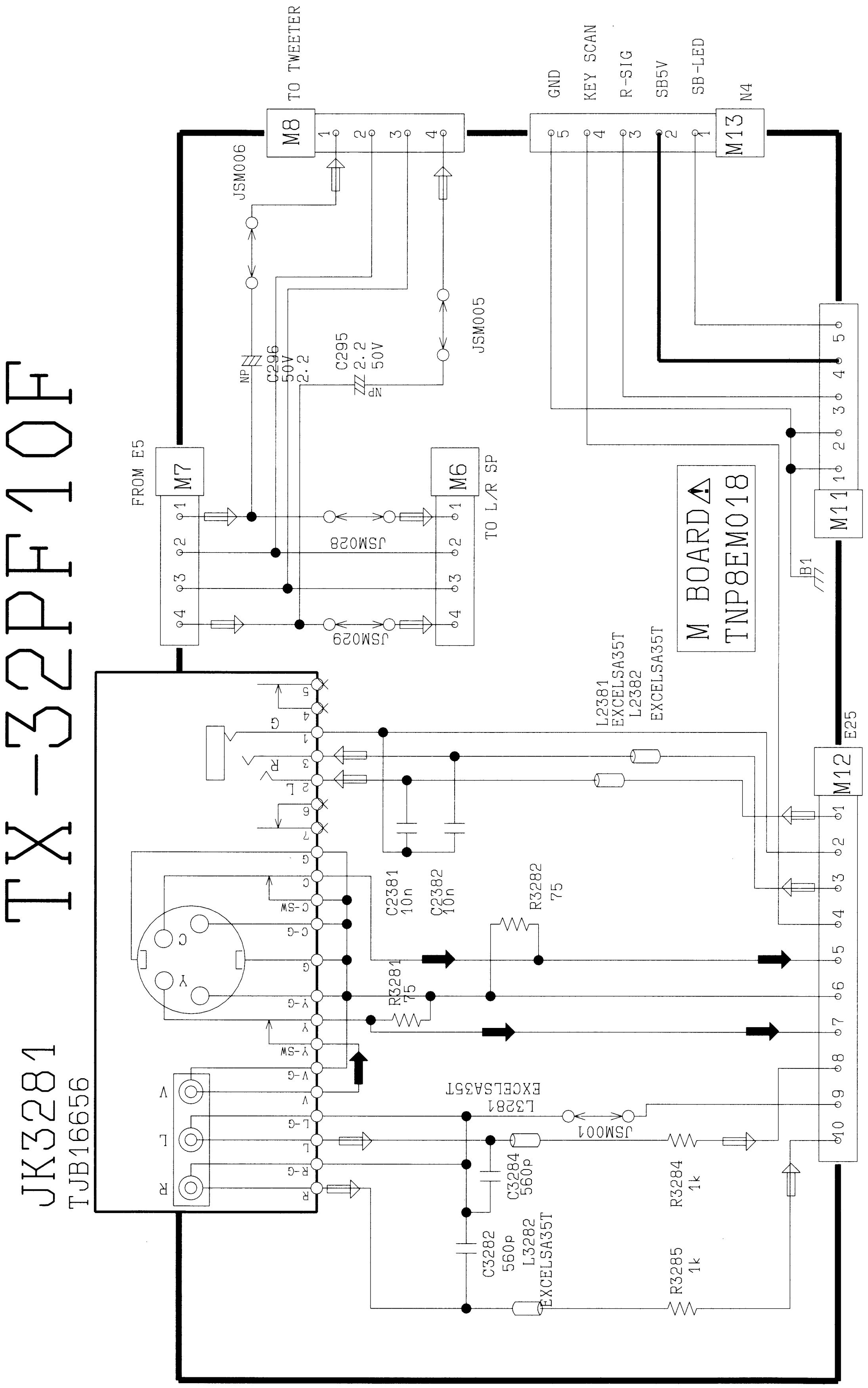
a. Weder die Leitungen im heißen noch Leitungen im heißen und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
b. Keinesfalls die Leitungen im heißen Bereich mit denen im kalten Bereich verbinden oder kurzschliessen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.
c. Keine Messinstrumente gleichzeitig an Leitungen im heissen und kalten Bereich anschliessen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.
d. Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.

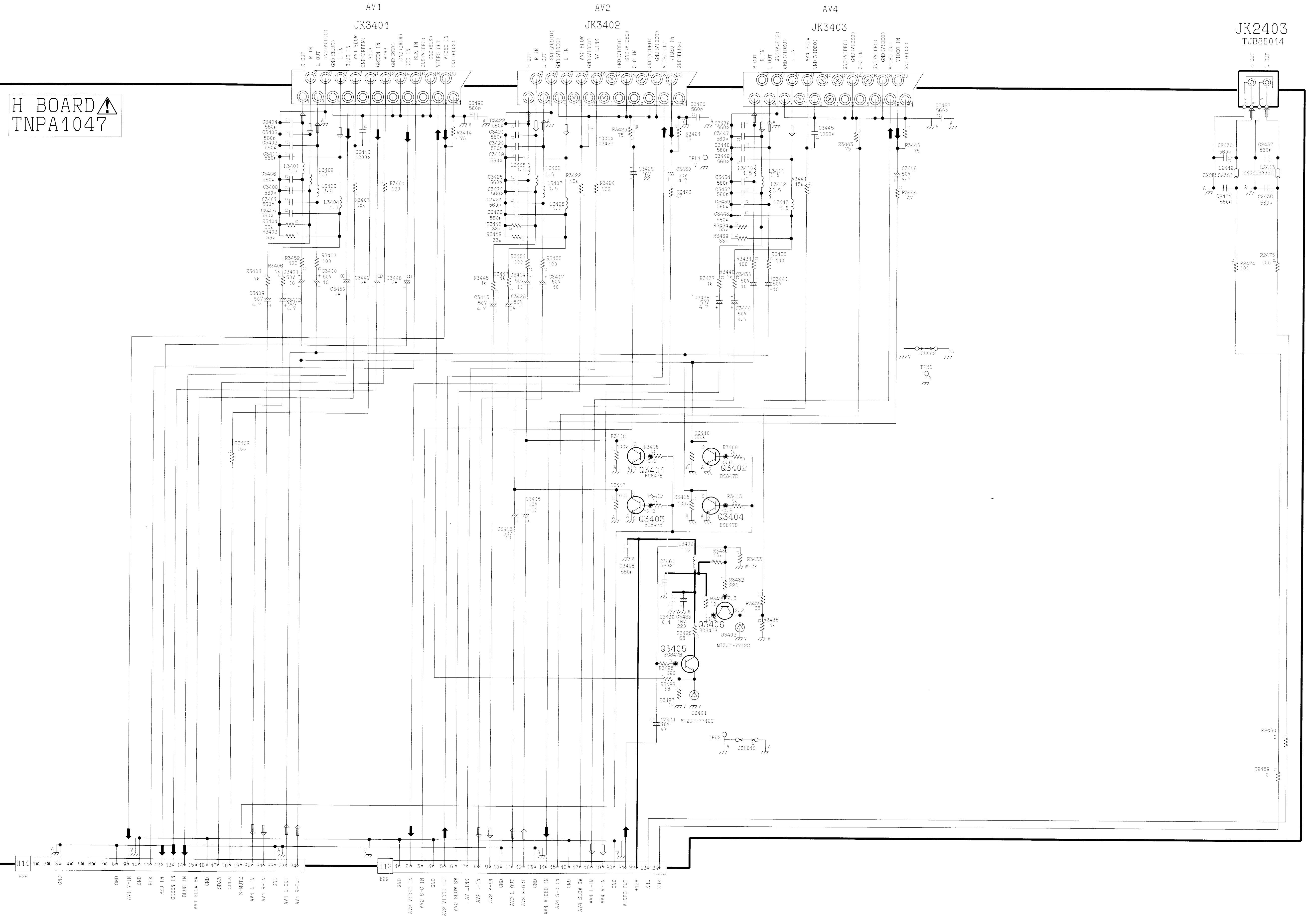


G BOARD
TNPA0877
PIP PROCESSOR
IC1801
SDA9288XEGEG
COLOUR DECODER
IC1802
TDA9143/N1
Q1801 BC847B
Q1802 BC847B
Q1803 BC847B
Q1804 BC857B
Q1805 BC857B
Q1806 BC857B
D1801 MA151A
D1802 MA151A
X1801 TSSA009
X1802 TSSA025
X1803 TSSA024
L1807 EXCELDR35V
L1809 EXCELDR35V
L2505 EXCEMT103DTM
L2506 EXCEMT103DTM
5V
8V
SCL2
SDA2
G14
E21
R OUT
G OUT
B OUT
FB_PIP_OUT
GND(ANA)
GND(ANA)
V100
H100
G11
E18
GND(ANA)
PIP_CVBS_IN
PIP_C_IN
GND(ANA)
G12
E19
JSG1
JSG2
JSG3
JSG4
JSG8
JSG13

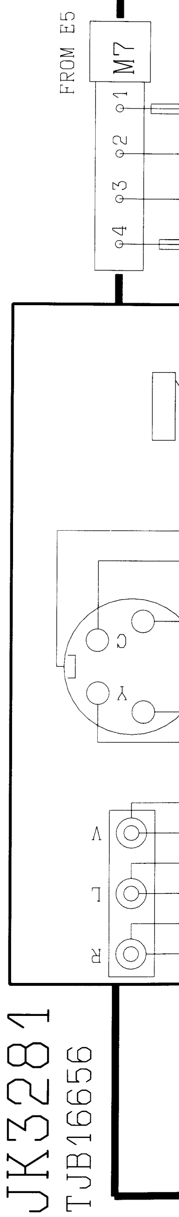

G BOARD⚠
TNPA0877
COLOUR DECODER
IC1802
TDA9143/N1
R1824
R1827 1.3k
R1828 390
R1825 470
C1823 330p
L1808 47
C1820 68p
R1826 220
C1824 0.1
R1829 100
R1830 100
C1825 0.1
C1826 0.1
L1819 16V
L1809 EXCELDR35V
C1829 0.1
R1834 100
C1830 0.1
C1831 0.1
C1840 3300p
C1837 0.1
R1841 15k
C1832 0.1
C1834 0.1
R1839 2.2M
C1838 0.1
R1842 150
R1854 150
R1857 20M
R1858 20M
R1835 82k
C1835 0.1
C1836 3300p
R1840 0
X1803 TSSA024
X1802 TSSA025
C1828 15p
C1833 18p
JSG13
C2501 16V 100
L2506 EXCEMT103DTM
L2505 EXCEMT103DTM
5v
SCL
SDA
8V
SCL2
SDA2
5V
G12
E19
G11
E18
GND (ANA)
PIP_CVBS_IN
PIP_C_IN
GND (ANA)
A1
A2
DIS_EXTFB
U_OUT
V_OUT
Y_OUT
VA
SAND. C.
DGND
DECUUP
VCC
SDA
SCL
V_IN
U_IN
U_OUT
V_OUT
CLP/HA
EXT_FB_IN
EXT_B_IN
EXT_G_IN
EXT_R_IN
CVBS OUT
FSCOMB
HPLL
(C_IN)
CVBS_IN
AGND
FILTER REF
CPLL
REF XTAL
2ND XTAL
SECAM REF

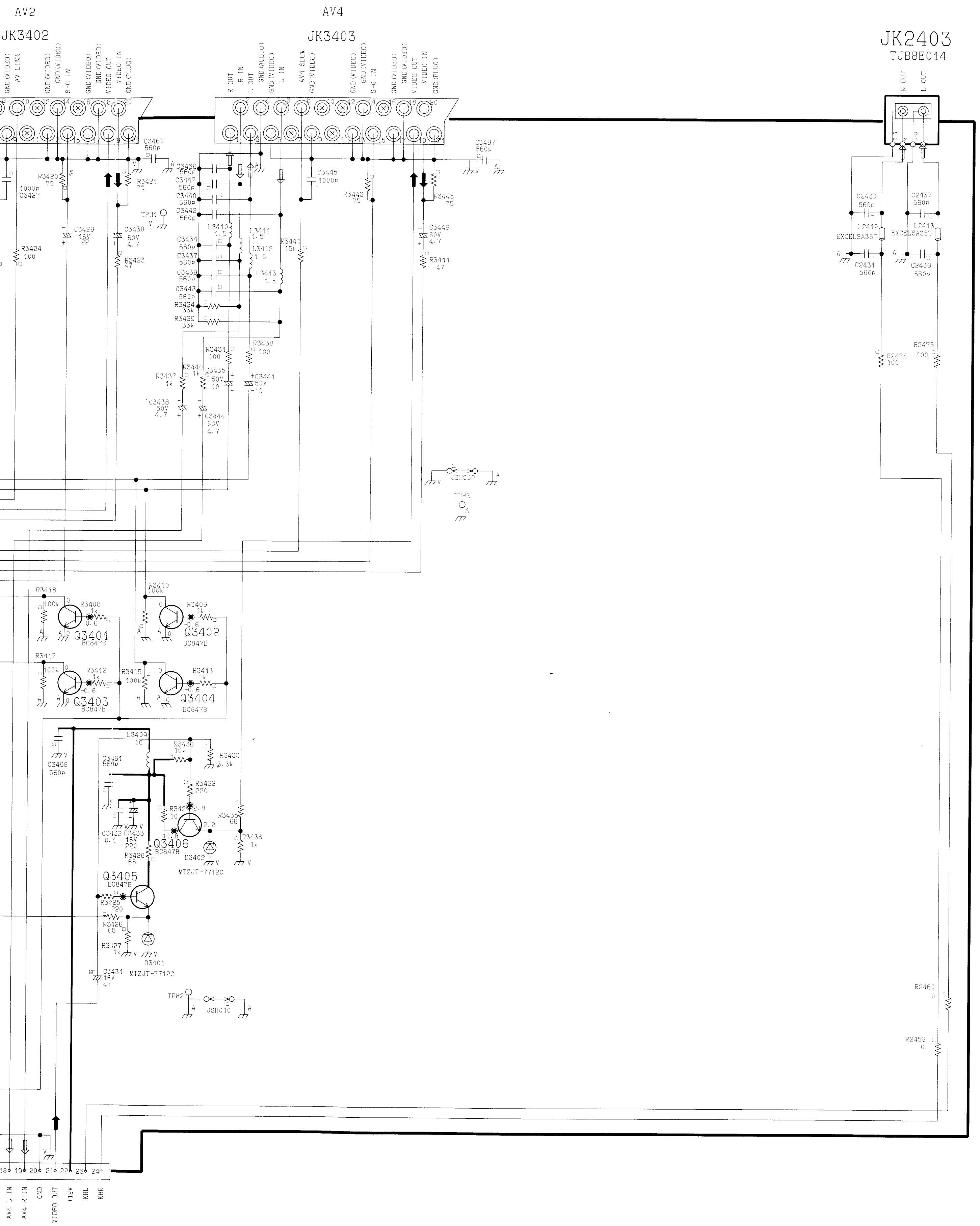
TX-32PF10F

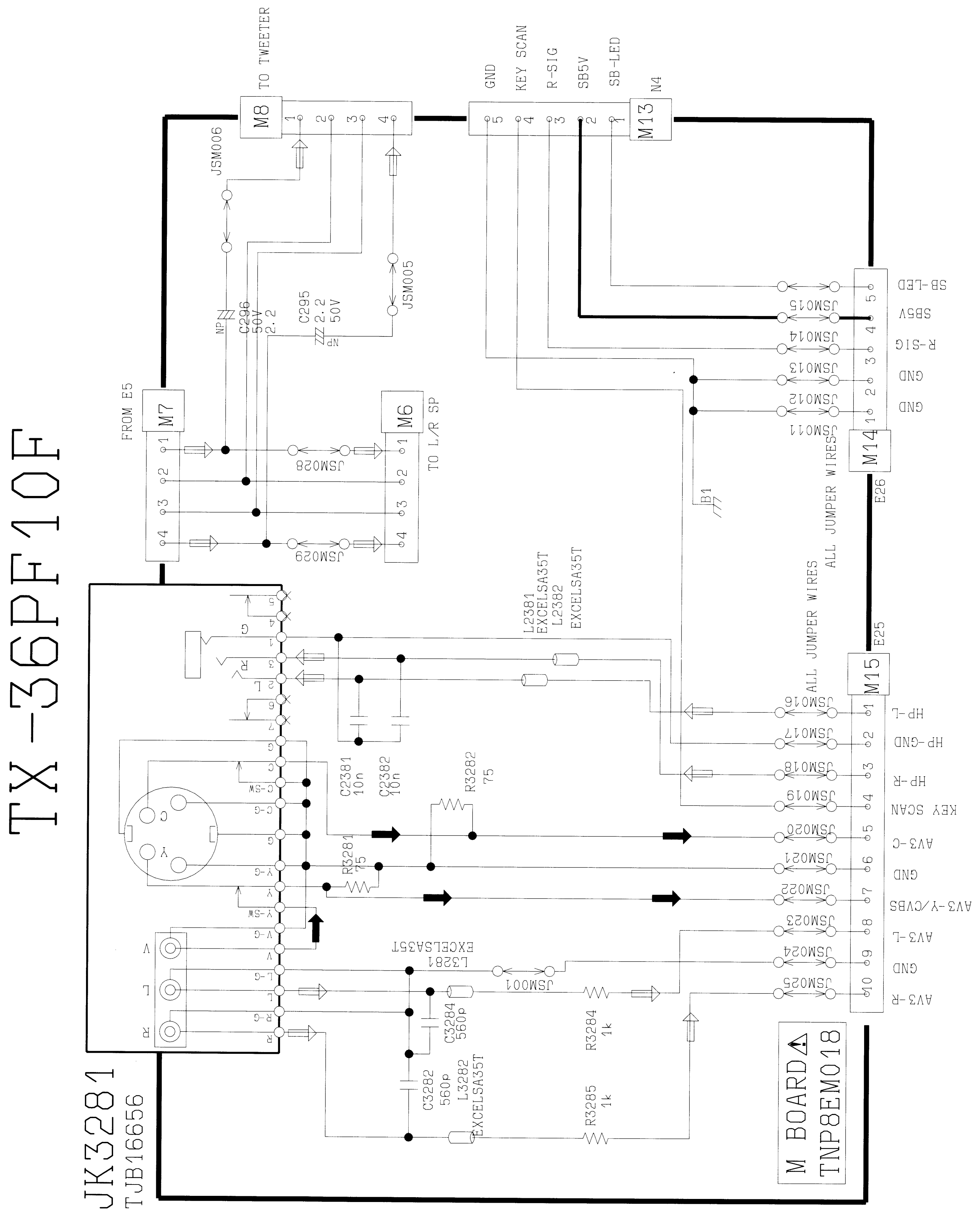

JK3281
TJB16656
M BOARD⚠
TNP8EM018
M8
TO TWEETER
JSM006
M13
N4
GND
KEY SCAN
R-SIG
SB5V
SB-LED
JSM005
C296 50V 2.2
C295 2.2 50V
NP
M7
FROM E5
M6
TO L/R SP
JSM028
JSM029
M11
B1
L2381 EXCELSA35T
L2382 EXCELSA35T
M12
E25
C2381 10n
C2382 10n
R3282 75
R3281 75
L3281 EXCELSA35T
JSM001
C3284 560p
C3282 560p
L3282 EXCELSA35T
R3284 1k
R3285 1k
C-SW
C-G
Y-G
Y-SW
V-G
L-G
R-G

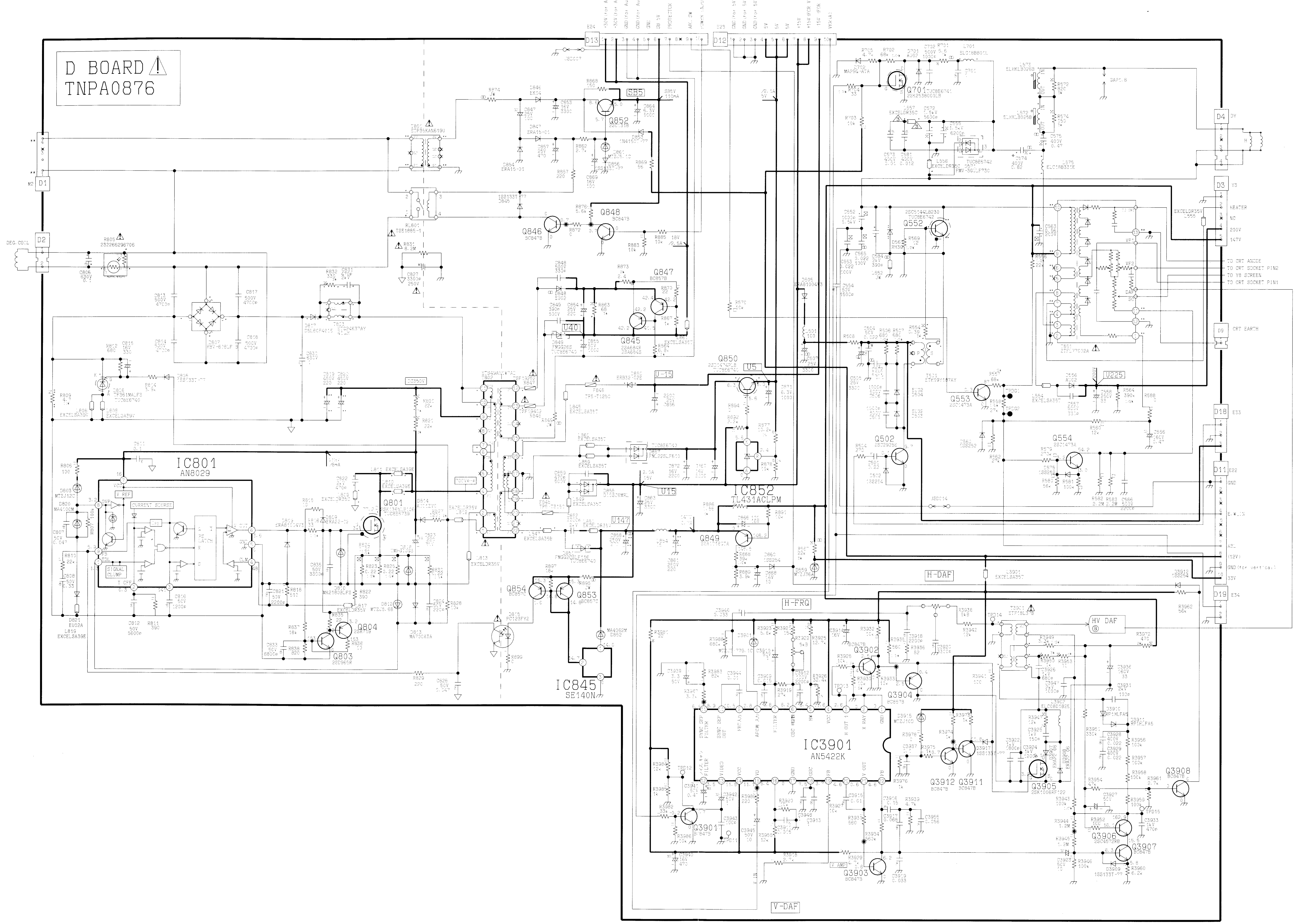

H BOARD
TNPA1047
AV1
JK3401
AV2
JK3402
AV4
JK3403
JK2403
TJB8E014
Q3401
Q3402
Q3403
Q3404
Q3405
Q3406
D3401
D3402
H11
H12
E28
E29
GND
AV1 V-IN
BLK
RED IN
GREEN IN
BLUE IN
AV1 SLOW SW
SDA3
SCL3
S-MUTE
AV1 L-IN
AV1 R-IN
AV1 L-OUT
AV1 R-OUT
AV2 VIDEO IN
AV2 S-C IN
AV2 VIDEO OUT
AV2 SLOW SW
AV LINK
AV2 L-IN
AV2 R-IN
AV2 L-OUT
AV2 R-OUT
AV4 VIDEO IN
AV4 S-C IN
AV4 SLOW SW
AV4 L-IN
AV4 R-IN
VIDEO OUT
+12V
KHL
KHR

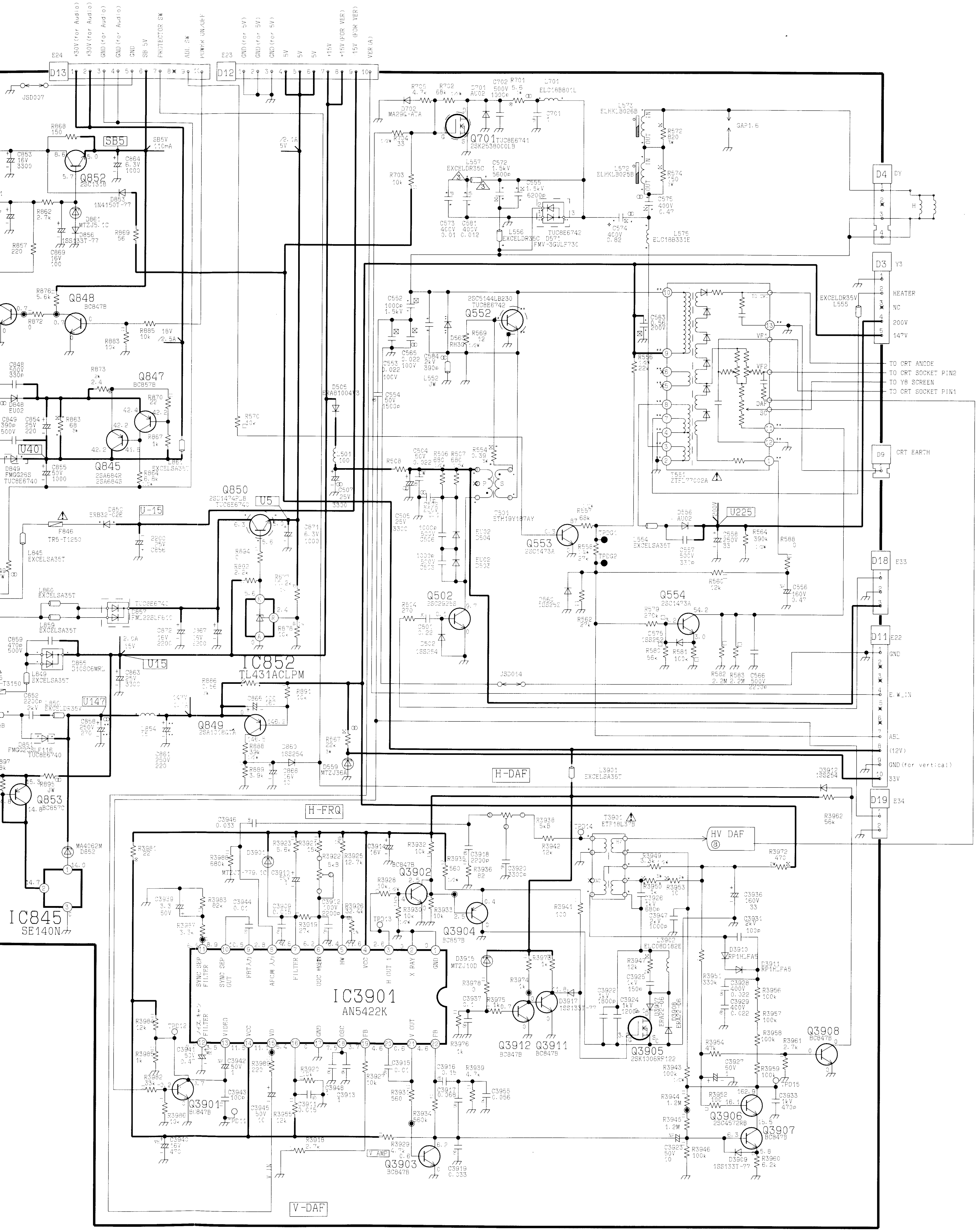
TX-36PF10F

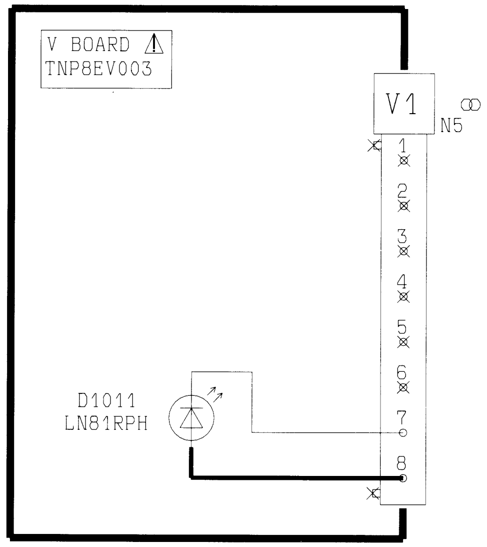

FROM E5
M7
1
2
3
4
A
L
R
JK3281
TJB16656


AV2
JK3402
AV4
JK3403
JK2403
TJB8E014
R OUT
L OUT
C2430 560p
C2437 560p
L2412 EXCELSA35T
L2413 EXCELSA35T
C2431 560p
C2438 560p
R2474 100
R2475 100
C3460 560p
C3497 560p
C3445 1000p
R3420 75
R3421 75
R3443 75
R3445 75
R3424 100
C3429 16V 22
C3430 50V 4.7
R3423 47
R3444 47
C3446 50V 4.7
TPH1
L3410 1.5
L3411 1.5
L3412 1.5
L3413 1.5
R3441 15k
R3434 33k
R3439 33k
R3431 100
R3438 100
R3437 1k
C3435 50V 10
C3441 50V 10
C3436 50V 4.7
C3444 50V 4.7
JSH002
TPH3
R3418 100k
R3408 1k
Q3401 BC847B
R3410 100k
R3409 1k
Q3402 BC847B
R3417 100k
R3412 1k
Q3403 BC847B
R3415 100k
R3413 1k
Q3404 BC847B
L3409 10
C3498 560p
R3430 10k
R3433 3.3k
C3451 560p
R3432 220
Q3406 BC847B
R3435 68
R3436 1k
D3402 MTZJT-7712C
C3432 0.1
C3433 16V 220
R3428 68
Q3405 BC847B
R3425 220
R3426 68
R3427 1k
D3401 MTZJT-7712C
C3431 16V 47
TPH2
JSH010
R2460 0
R2459 0
18 19 20 21 22 23 24
AV4 L-IN
AV4 R-IN
GND
VIDEO OUT
+12V
KHL
KHR

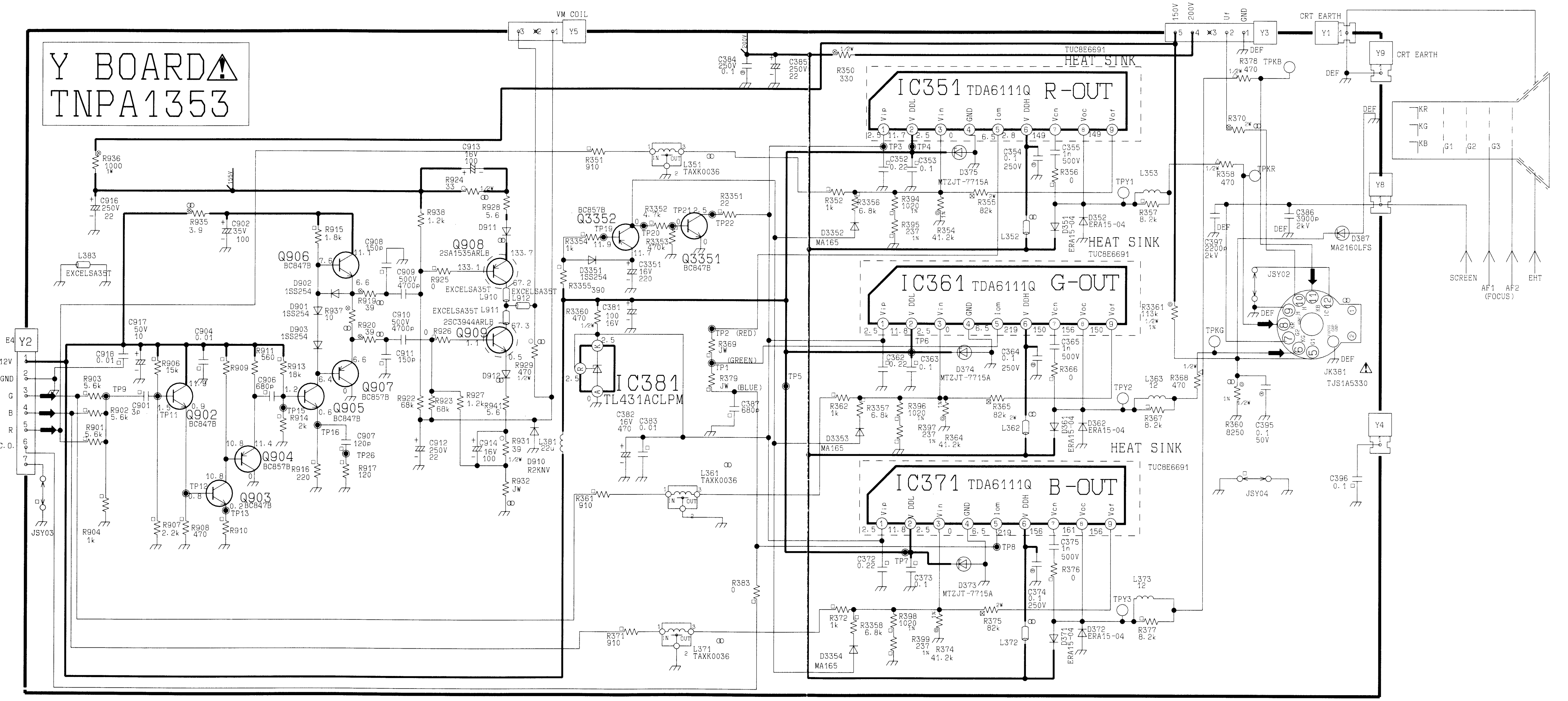

TX-36PF10F
M8 TO TWEETER
M13 N4
GND
KEY SCAN
R-SIG
SB5V
SB-LED
JSM006
JSM005
C296 50V 2.2
C295 2.2 50V
NP
M7 FROM E5
M6 TO L/R SP
JSM028
JSM029
M14 E26
M15 E25
ALL JUMPER WIRES
JSM011
JSM012
JSM013
JSM014
JSM015
SB-LED
SB5V
R-SIG
GND
GND
B1
L2381 EXCELSA35T
L2382 EXCELSA35T
C2381 10n
C2382 10n
R3282 75
R3281 75
JSM016
JSM017
JSM018
JSM019
JSM020
JSM021
JSM022
JSM023
JSM024
JSM025
HP-L
HP-GND
HP-R
KEY SCAN
AV3-C
GND
AV3-Y/CVBS
AV3-L
GND
AV3-R
L3281 EXCELSA35T
JSM001
C3284 560p
C3282 560p
L3282 EXCELSA35T
R3284 1k
R3285 1k
JK3281
TJB16656
M BOARD⚠
TNP8EM018


D BOARD ⚠
TNPA0876
D13
D12
D1
D2
DEG.COIL
D4
DY
D3
Y3
HEATER
NC
200V
147V
TO CRT ANODE
TO CRT SOCKET PIN2
TO Y8 SCREEN
TO CRT SOCKET PIN1
D9
CRT EARTH
D18
E33
D11
E22
D19
E34
IC801
AN8029
V REF
CURRENT SOURCE
SIGNAL CLUMP
Q801
Q803
Q804
Q845
Q846
Q847
Q848
Q849
Q850
Q852
Q853
Q854
IC845
SE140N
IC852
TL431ACLPM
Q552
Q553
Q554
Q502
Q701
IC3901
AN5422K
Q3901
Q3902
Q3903
Q3904
Q3905
Q3906
Q3907
Q3908
Q3911
Q3912
H-DAF
H-FRQ
V-DAF
HV DAF
SB5
U401
U-15
U5
U15
U147
U225
T801
RL801
T551

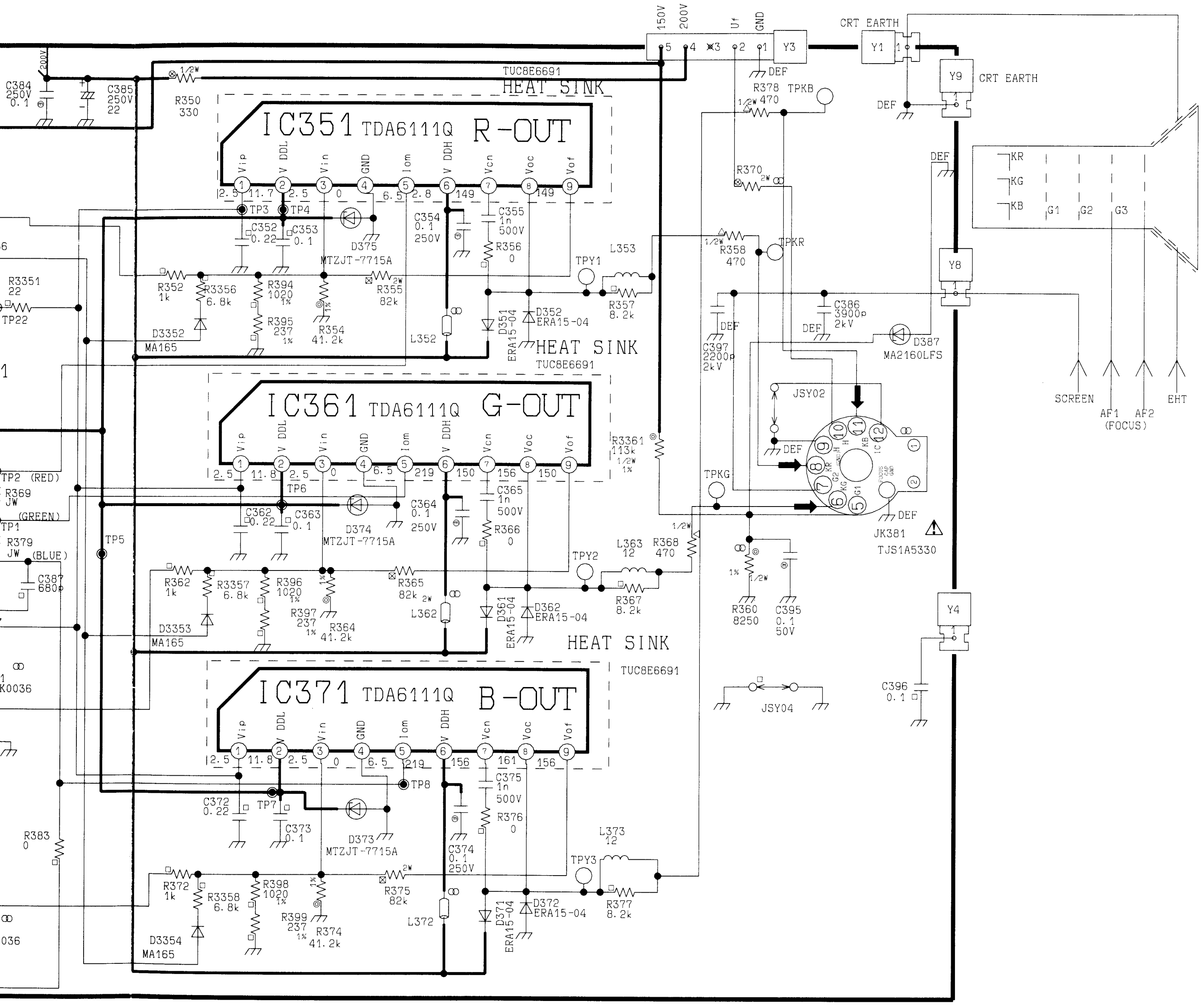

D13
E24
D12
E23
+30V(for Audio)
GND(for Audio)
PROTECTOR SW
POWER ON/OFF
GND(for 5V)
5V
15V
VER(A)
JSD007
Q852
2SD1376
SB5
Q848
BC847B
Q847
BC857B
Q845
2SA684R
U40
Q850
U5
IC852
TL431ACLPM
U15
U147
Q849
Q853
BC857C
IC845
SE140N
Q701
2SK2539CCLB
D702
MA896-A7A
L557
EXCELDR35C
L556
D571
FMV-3GULF73C
L572
ELHKL3026B
L573
ELHKL3025B
L575
ELC18B331E
C575
400V
0.47
GAP1.6
D4
DY
H
D3
Y3
HEATER
NC
200V
147V
L555
EXCELDR35V
TO CRT ANODE
TO CRT SOCKET PIN2
TO Y8 SCREEN
TO CRT SOCKET PIN1
VF1
VF2
DAF
T551
ZTFC77C02A
D9
CRT EARTH
Q552
2SC5144LB230
Q553
2SD1473A
U225
Q502
Q554
2SD1473A
T501
ETH19Y19TAY
D18
E33
D11
E22
GND
E.W.IN
AEL
(12V)
GND(for vertical)
33V
D19
E34
JSD014
D559
MTZJ36B
H-DAF
L3901
EXCELSA35T
H-FRQ
HV DAF
T3901
ETF16L3.8
V-DAF
IC3901
AN5422K
SYNC SEP FILTER
SYNC SEP OUT
FRT ADJ
AFC-H ADJ
FILTER
OSC MASK
VCC
H OUT
X RAY
GND
Q3901
BC847B
Q3902
BC847B
Q3903
BC847B
Q3904
BC857B
Q3905
2SK1006RP122
Q3906
2SC4572RB
Q3907
BC847B
Q3908
BC847B
Q3911
BC847B
Q3912
BC847B
D3915
MTZJ10D
D3917
1SS133T-77
D3909
1SS133T-77
V AMP

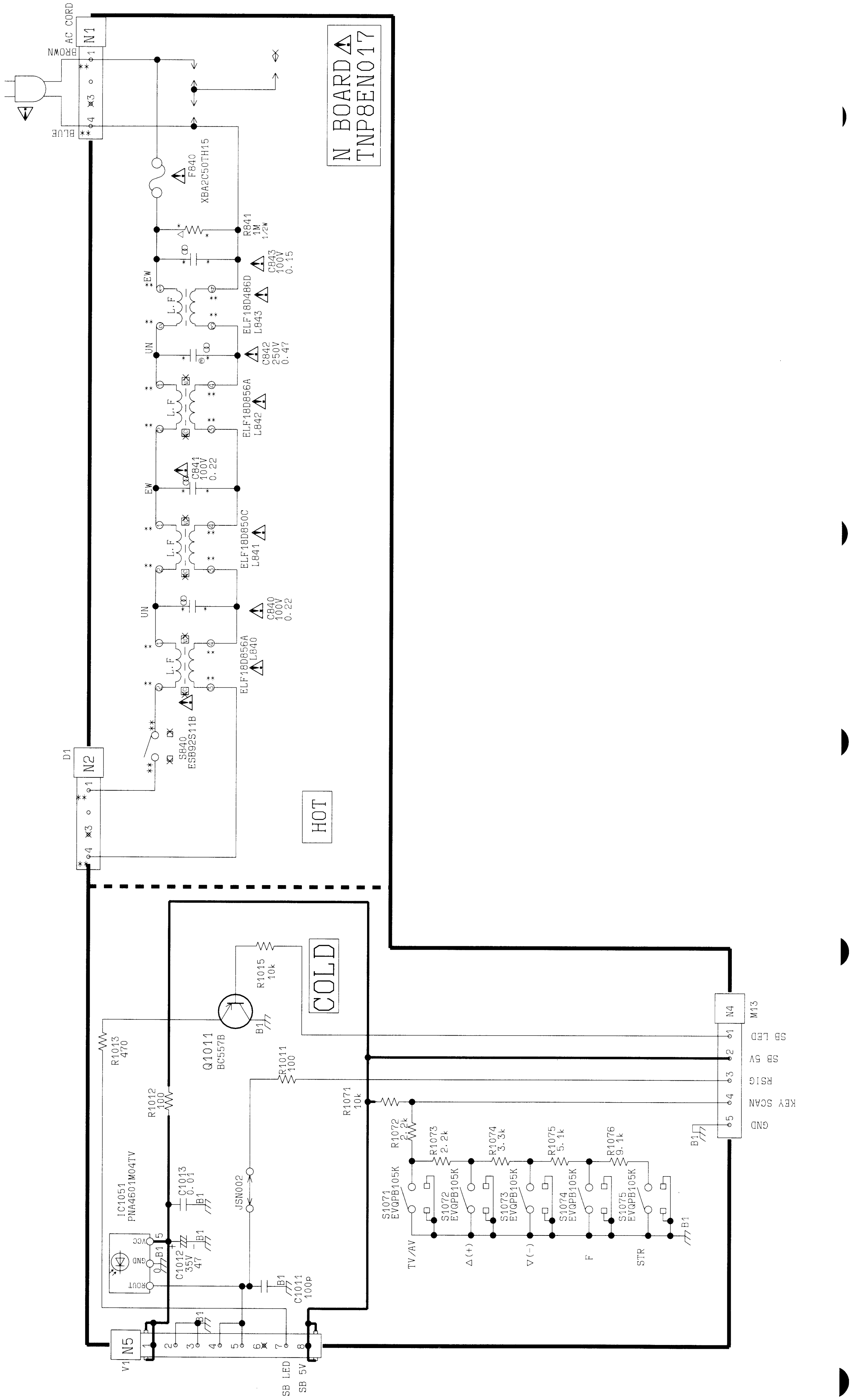

V BOARD
TNP8EV003
V1
N5
1
2
3
4
5
6
7
8
D1011
LN81RPH

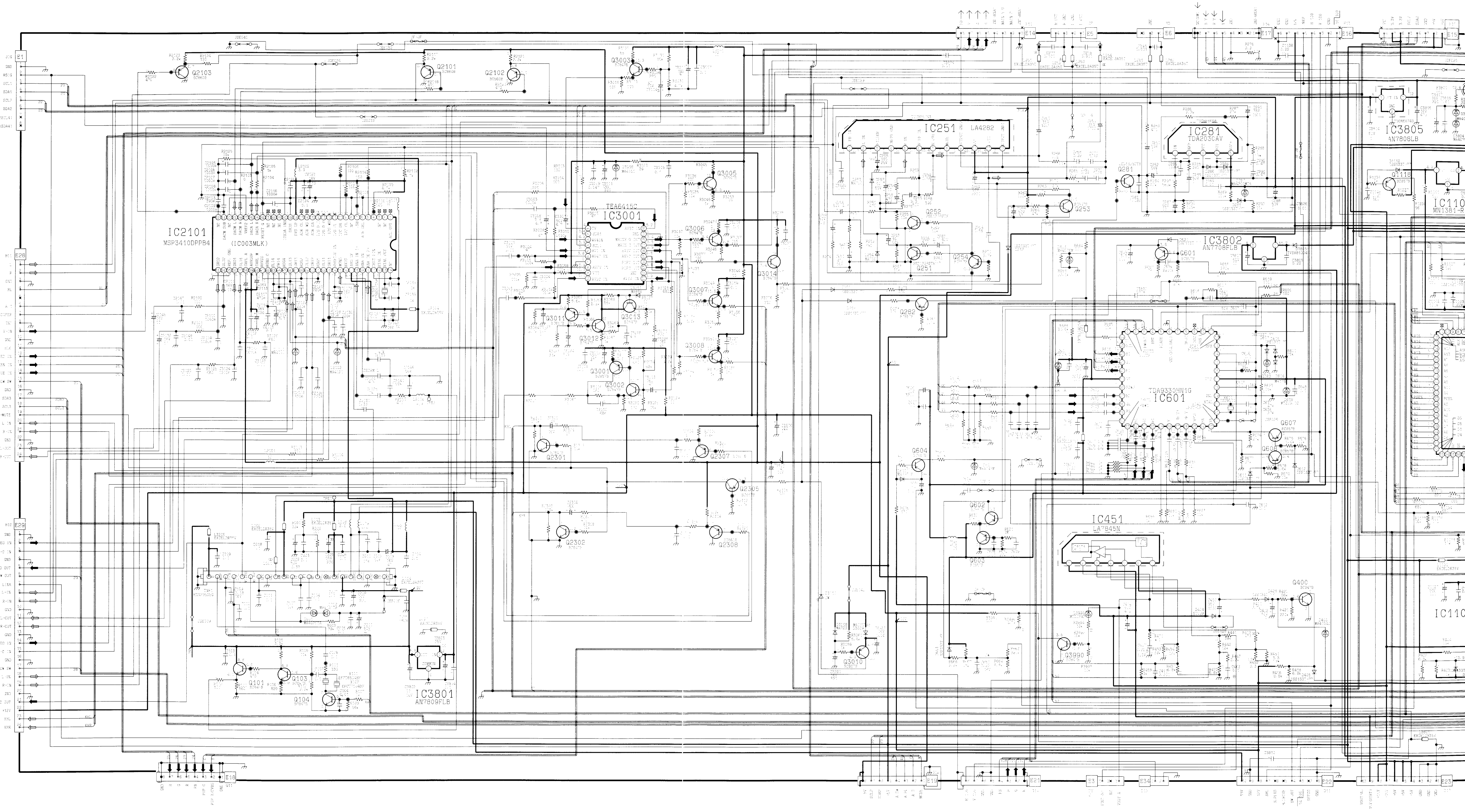
Y BOARD⚠ TNPA1353

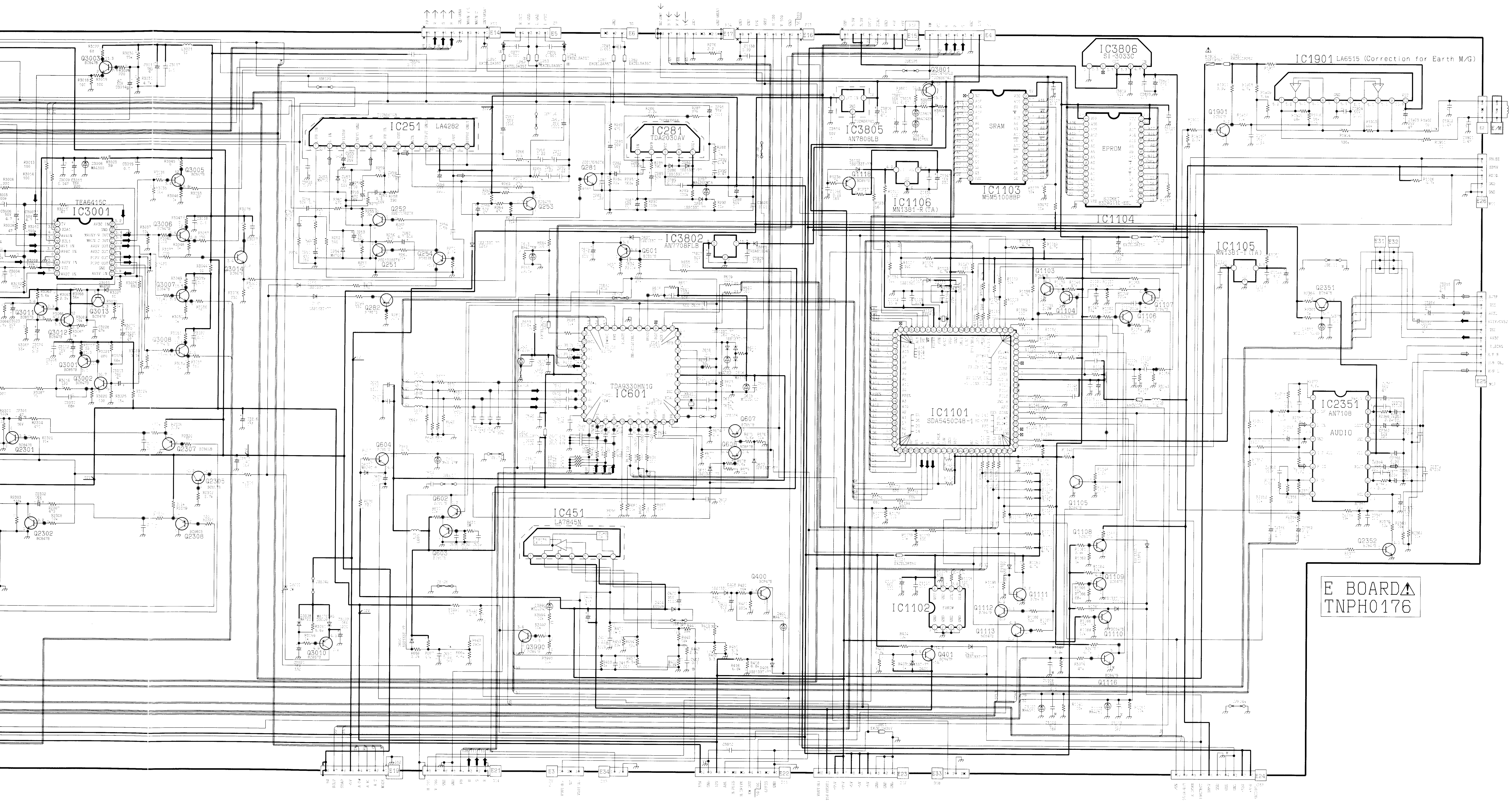


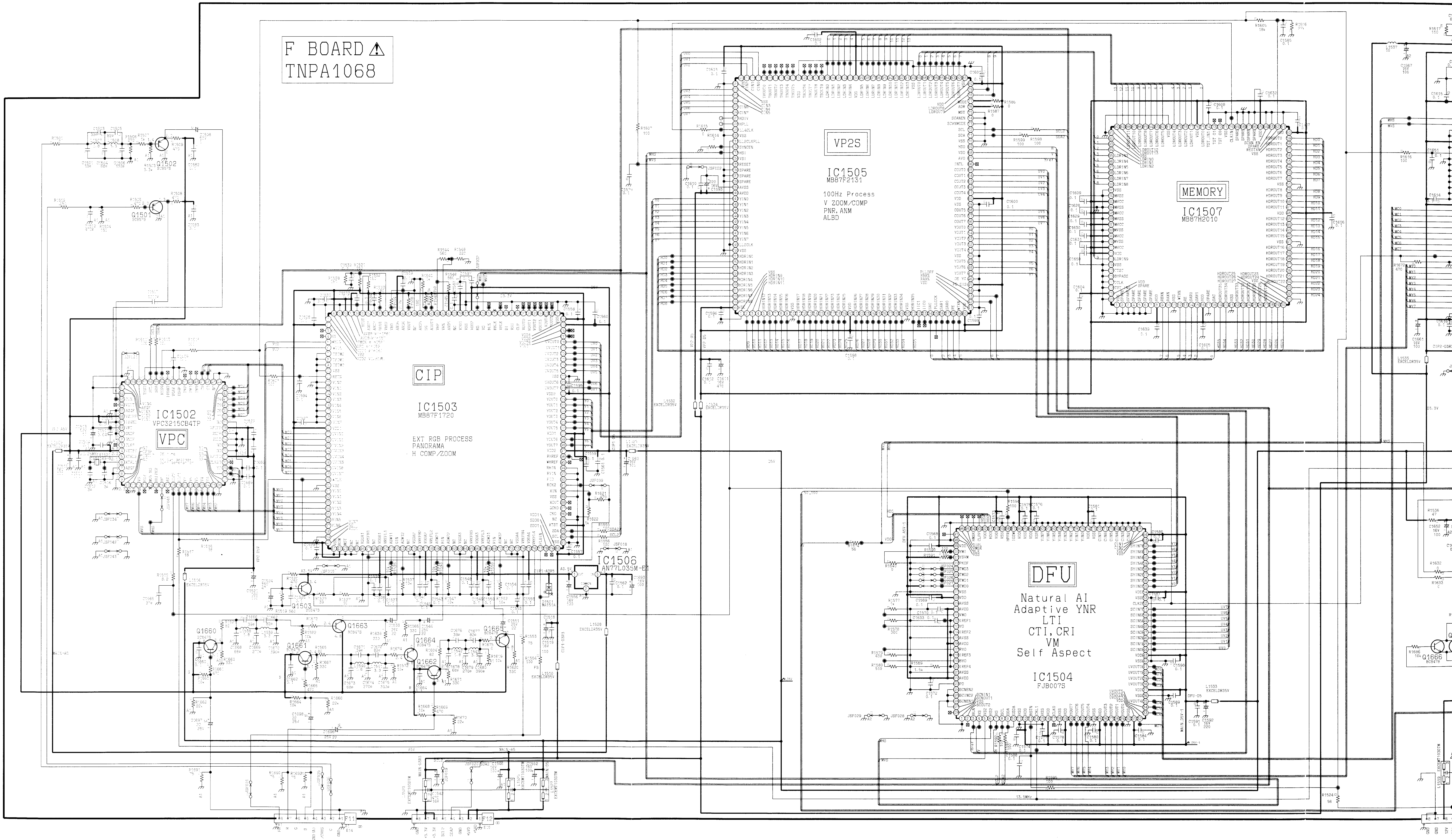
VM COIL
Y5
Y2
E4
12V
GND
G
B
R
C.O.
JSY03
Y3
150V
200V
Uf
GND
CRT EARTH
Y1
Y9
Y8
Y4
IC351 TDA6111Q R-OUT
IC361 TDA6111Q G-OUT
IC371 TDA6111Q B-OUT
HEAT SINK
TUC8E6691
Vip
V DDL
Vin
GND
Iom
V DDH
Vcn
Voc
Vof
IC381 TL431ACLPM
Q902 BC847B
Q903 BC847B
Q904 BC857B
Q905 BC847B
Q906 BC847B
Q907 BC857B
Q908 2SA1535ARLB
Q909 2SC3944ARLB
Q3351 BC847B
Q3352 BC857B
L351 TAXK0036
L361 TAXK0036
L371 TAXK0036
L383 EXCELSA35T
L910 EXCELSA35T
L911 EXCELSA35T
L912 EXCELSA35T
L381 22µ
D374 MTZJT-7715A
D375 MTZJT-7715A
D373 MTZJT-7715A
D351 ERA15-04
D352 ERA15-04
D361 ERA15-04
D362 ERA15-04
D371 ERA15-04
D372 ERA15-04
D3351 1SS254
D3352 MA165
D3353 MA165
D3354 MA165
D387 MA2160LFS
D901 1SS254
D902 1SS254
D903 1SS254
D910 R2KNV
JK381 TJS1A5330
JSY02
JSY04
TPKB
TPKR
TPKG
TPY1
TPY2
TPY3
TP1
TP2 (RED)
(GREEN)
(BLUE)
TP5
TP8
TP9
TP11
TP12
TP13
TP15
TP16
TP19
TP20
TP21
TP22
TP26
KR
KG
KB
G1
G2
G3
SCREEN
AF1
AF2
(FOCUS)
EHT
DEF

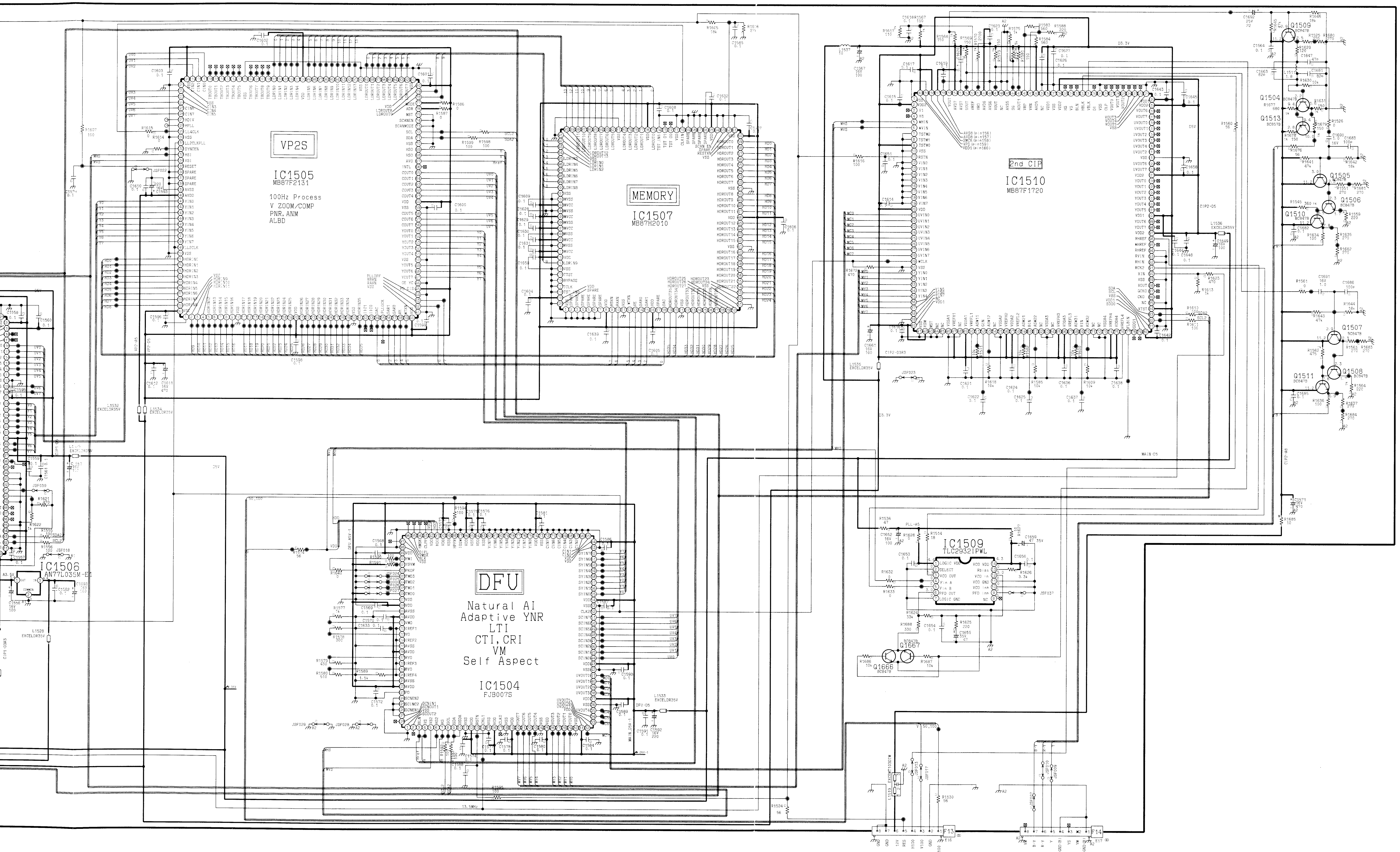

IC351 TDA6111Q R-OUT
IC361 TDA6111Q G-OUT
IC371 TDA6111Q B-OUT
HEAT SINK
TUC8E6691
JK381
TJS1A5330
CRT EARTH
SCREEN
AF1 (FOCUS)
AF2
EHT
JSY02
JSY04
MA2160LFS
MTZJT-7715A
ERA15-04
MA165
Y1
Y3
Y4
Y8
Y9


N BOARD
TNP8EN017
AC CORD
HOT
COLD
N1
N2
N4
N5
M13
Q1011
BC557B
IC1051
PNA4601M04TV
TV/AV
STR
SB LED
SB 5V
KEY SCAN
GND


E1
E28
E29
E18
E14
E5
E6
E17
E16
E19
E11
E21
E3
E34
E22
E23
Q2103
Q2101
Q2102
Q3003
IC2101
MSP3410DPPB4
(IC003MLK)
TEA6415C
IC3001
Q3005
Q3006
Q3014
Q3007
Q3008
Q3011
Q3012
Q3013
Q3001
Q3002
Q2301
Q2307
Q2305
Q2302
Q2308
Q101
Q103
Q104
IC3801
AN7809FLB
IC251
LA4282
Q252
Q251
Q253
Q254
Q282
IC281
TDA2030AV
Q281
IC3805
AN7808LB
Q1118
IC3802
AN7708FLB
Q601
TDA9330HN1G
IC601
Q607
Q608
Q604
Q602
Q603
IC451
LA7845N
Q400
Q3990
Q3010


IC3001
TEA6415C
IC251
LA4282
IC281
TDA2030AV
IC3805
AN7808LB
IC3806
SI-3033C
IC1901 LA6515 (Correction for Earth M/G)
SRAM
EPROM
IC1103
M5M5100BBP
IC1104
IC1106
MN1381-R (TA)
IC3802
AN7706FLB
IC1105
MN1381-I (TA)
IC601
TDA9330HN1G
IC1101
SDA5450C48-1
IC2351
AN7108
AUDIO
IC451
LA7845N
IC1102
EAROM
Q3003
Q3005
Q3006
Q3007
Q3008
Q3011
Q3012
Q3013
Q3004
Q3002
Q3014
Q3010
Q2301
Q2302
Q2305
Q2307
Q2308
Q281
Q252
Q253
Q251
Q254
Q282
Q601
Q602
Q603
Q604
Q607
Q608
Q400
Q401
Q3990
Q3801
Q1118
Q1103
Q1104
Q1105
Q1106
Q1107
Q1108
Q1109
Q1110
Q1111
Q1112
Q1113
Q1116
Q1901
Q2351
Q2352
E14
E5
E6
E17
E16
E15
E4
E2
E/M
E26
E25
E31
E32
E19
E21
E3
E34
E22
E23
E33
E24
E BOARD⚠
TNPH0176


F BOARD ⚠
TNPA1068
Q1502
Q1501
IC1502
VPC3215CB4TP
VPC
CIP
IC1503
MB87F1720
EXT RGB PROCESS
PANORAMA
H COMP/ZOOM
IC1506
AN77L035M-E1
Q1503
Q1660
Q1661
Q1663
Q1664
Q1662
Q1665
VP2S
IC1505
MB87F2131
100Hz Process
V ZOOM/COMP
PNR,ANM
ALBD
MEMORY
IC1507
MB87H2010
DFU
Natural AI
Adaptive YNR
LTI
CTI,CRI
VM
Self Aspect
IC1504
FJB0075
Q1666
F11
F12

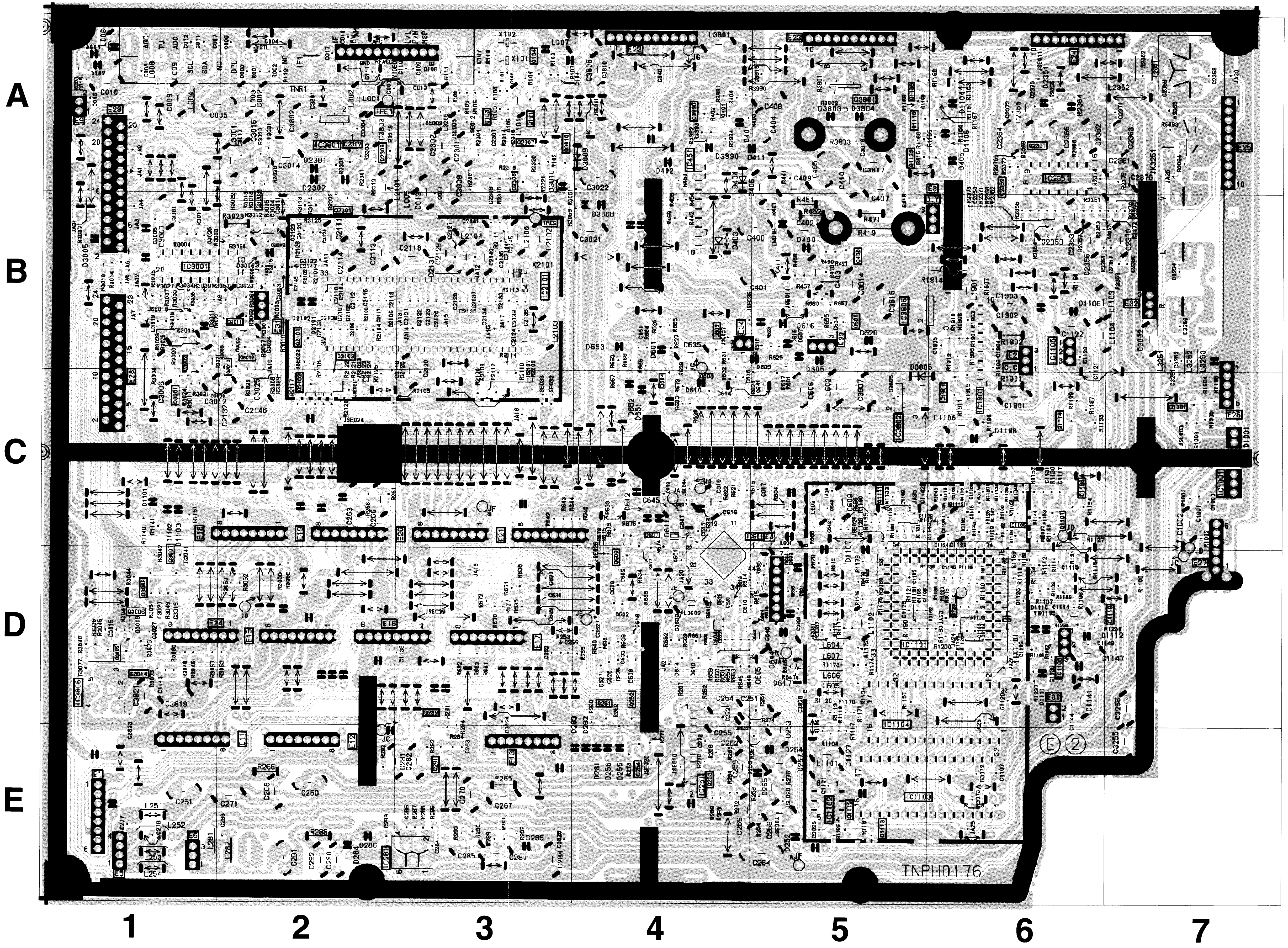


VP2S
IC1505
MB87F2131
100Hz Process
V ZOOM/COMP
PNR.ANM
ALBD
MEMORY
IC1507
MB87H2010
2nd CIP
IC1510
MB87F1720
DFU
Natural AI
Adaptive YNR
LTI
CTI,CRI
VM
Self Aspect
IC1504
FJB007S
IC1506
AN77L03SM-E1
IC1509
TLC2932IPWL
Q1509
Q1504
Q1513
Q1505
Q1506
Q1510
Q1507
Q1508
Q1511
Q1666
Q1667
F13
F14

CONDUCTOR VIEWS   ANSICHT DER LEITERBAHNEN

E - BOARD TNPH0176

TRAN'S		DIODE'S			
Q101	A3	D001	A1	D2364	A6
Q103	A3	D002	A1	D3005	B1
Q104	A3	D252	E5	D3006	B2
Q251	D4	D253	E5	D3008	B4
Q252	D4	D254	E5	D3009	A3
Q253	E4	D255	E4	D3010	A3
Q254	E4	D256	E4	D3011	B1
Q281	E3	D281	E4	D3803	A5
Q282	D3	D282	E4	D3804	A5
Q400	B5	D283	E4	D3805	C5
Q401	A4	D284	E2	D3990	A4
Q601	B5	D285	E3		
Q602	B4	D286	E2	I.C.'S	
Q603	C4	D400	B5	IC251	E4
Q604	C4	D401	A4	IC281	E2
Q607	C4	D402	A4	IC451	A4
Q608	D4	D403	B4	IC601	C4
Q1001	C7	D404	A4	IC1001	C7
Q1105	C6	D405	A6	IC1101	D5
Q1106	C6	D408	B5	IC1102	E5
Q1107	C6	D411	A4	IC1103	E5
Q1108	A5	D601	B4	IC1104	D5
Q1109	A5	D603	D5	IC1105	B6
Q1110	A5	D605	B5	IC1106	D6
Q1111	C5	D607	B5	IC1901	C6
Q1112	E5	D609	B5	IC2101	B3
Q1113	E5	D610	C4	IC2351	A6
Q1114	C6	D611	C4	IC3001	B1
Q1116	C6	D612	C4	IC3801	A2
Q1118	D6	D615	B5	IC3802	C5
Q1901	C6	D616	B5	IC3805	B5
Q2101	B2	D617	D5	IC3806	D1
Q2102	C2	D618	C4		
Q2103	B2	D620	B5	T.P.'S	
Q2301	B2	D651	C4	TPE1	A2
Q2302	A2	D652	C4	TPE2	B3
Q2305	A2	D653	B4	TPE23	D6
Q2307	A3	D1001	C7		
Q2308	A3	D1101	C1		
Q2351	A6	D1102	C1		
Q2352	A6	D1103	C1		
Q3001	C1	D1104	A6		
Q3002	B1	D1105	A6		
Q3003	B2	D1106	B6		
Q3005	D1	D1107	C5		
Q3006	D1	D1108	C6		
Q3007	D1	D1109	D6		
Q3008	D1	D1110	D6		
Q3010	A3	D1111	D6		
Q3011	B2	D1112	D6		
Q3012	B2	D2101	B2		
Q3013	B2	D2102	B2		
Q3014	D1	D2301	A2		
Q3801	A5	D2302	A2		
Q3990	A4	D2351	A6		

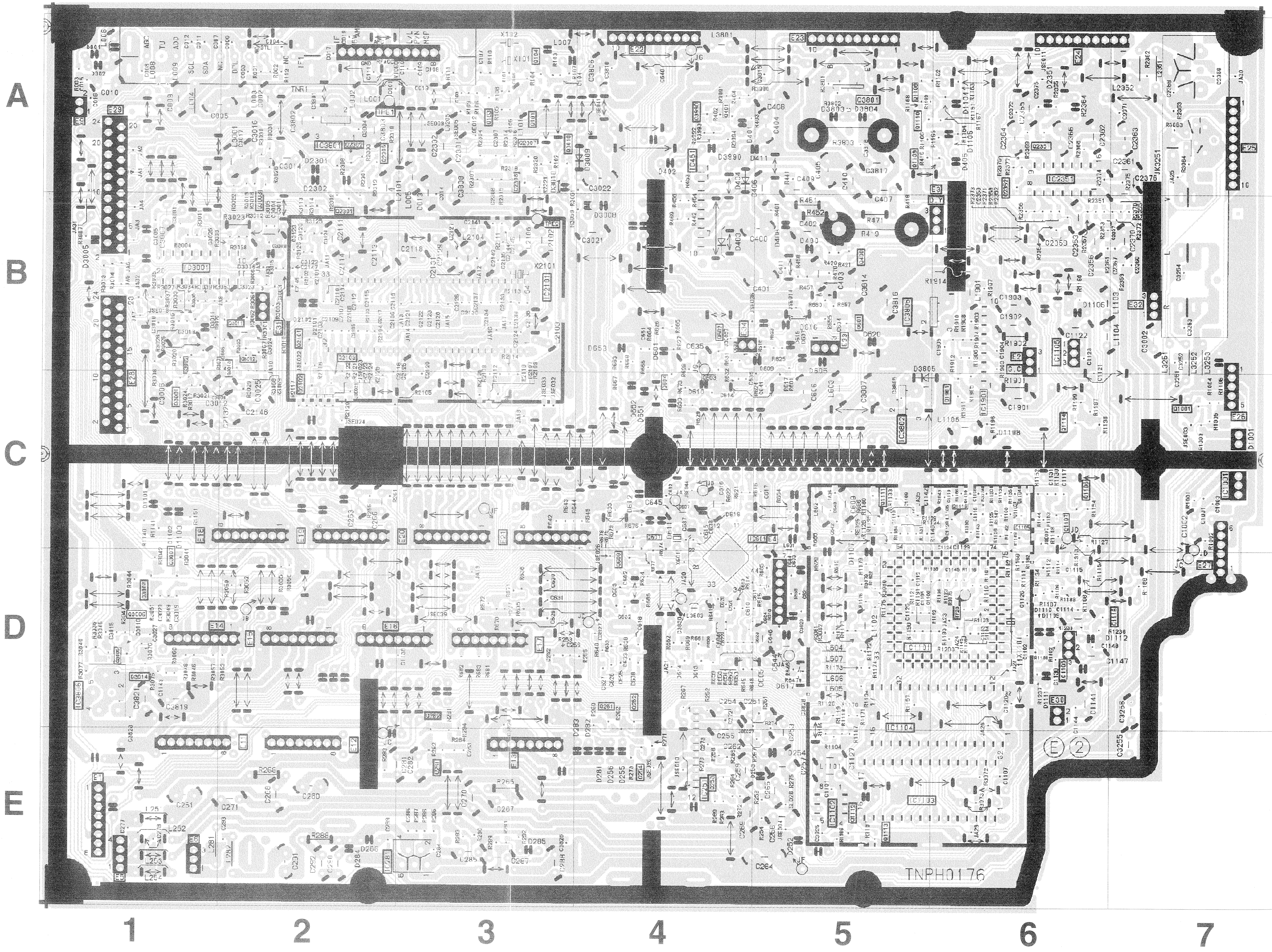


Q901
Q902
Q90
Q90
Q90
Q90
Q90
Q335
Q335
DI
D351
D352
D361
D362
D371
D372
D373
D374
D375
D387
D901
D902
D903
D910
D911
D335
D335
D335
D335
T.
TPY1
TPY2
TPY
TPK
TPK
TPK
I.
IC351
IC361
IC371
IC381

CONDUCTOR VIEWS ANSICHT DER LEITERBAHNEN

E - BOARD TNPH0176

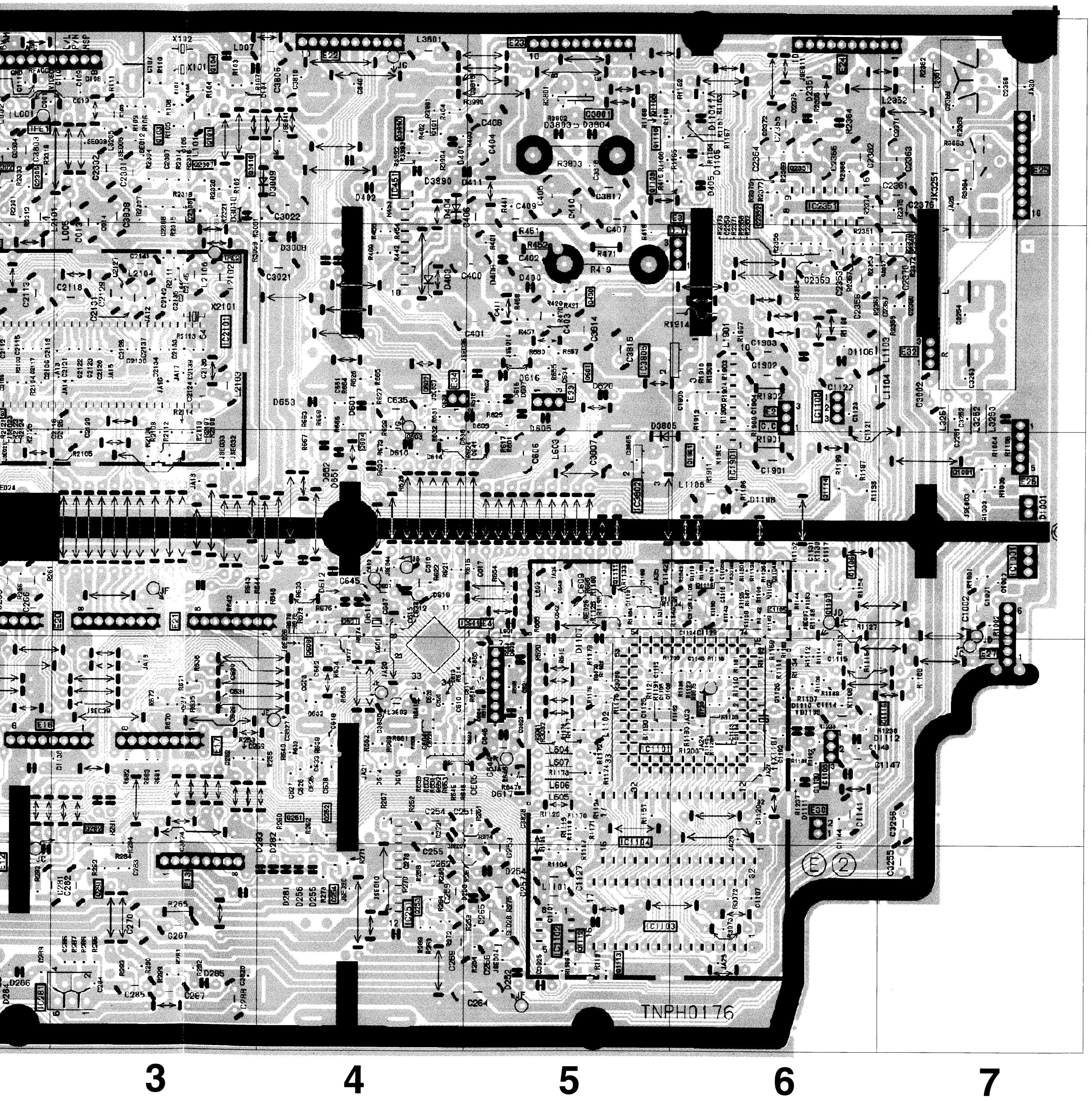
TRAN'S		DIODE'S			
Q101	A3	D001	A1	D2364	A6
Q103	A3	D002	A1	D3005	B1
Q104	A3	D252	E5	D3006	B2
Q251	D4	D253	E5	D3008	B4
Q252	D4	D254	E5	D3009	A3
Q253	E4	D255	E4	D3010	A3
Q254	E4	D256	E4	D3011	B1
Q281	E3	D281	E4	D3803	A5
Q282	D3	D282	E4	D3804	A5
Q400	B5	D283	E4	D3805	C5
Q401	A4	D284	E2	D3990	A4
Q601	B5	D285	E3		
Q602	B4	D286	E2	I.C.'S	
Q603	C4	D400	B5	IC251	E4
Q604	C4	D401	A4	IC281	E2
Q607	C4	D402	A4	IC451	A4
Q608	D4	D403	B4	IC601	C4
Q1001	C7	D404	A4	IC1001	C7
Q1105	C6	D405	A6	IC1101	D5
Q1106	C6	D408	B5	IC1102	E5
Q1107	C6	D411	A4	IC1103	E5
Q1108	A5	D601	B4	IC1104	D5
Q1109	A5	D603	D5	IC1105	B6
Q1110	A5	D605	B5	IC1106	D6
Q1111	C5	D607	B5	IC1901	C6
Q1112	E5	D609	B5	IC2101	B3
Q1113	E5	D610	C4	IC2351	A6
Q1114	C6	D611	C4	IC3001	B1
Q1116	C6	D612	C4	IC3801	A2
Q1118	D6	D615	B5	IC3802	C5
Q1901	C6	D616	B5	IC3805	B5
Q2101	B2	D617	D5	IC3806	D1
Q2102	C2	D618	C4		
Q2103	B2	D620	B5	T.P.'S	
Q2301	B2	D651	C4	TPE1	A2
Q2302	A2	D652	C4	TPE2	B3
Q2305	A2	D653	B4	TPE23	D6
Q2307	A3	D1001	C7		
Q2308	A3	D1101	C1		
Q2351	A6	D1102	C1		
Q2352	A6	D1103	C1		
Q3001	C1	D1104	A6		
Q3002	B1	D1105	A6		
Q3003	B2	D1106	B6		
Q3005	D1	D1107	C5		
Q3006	D1	D1108	C6		
Q3007	D1	D1109	D6		
Q3008	D1	D1110	D6		
Q3010	A3	D1111	D6		
Q3011	B2	D1112	D6		
Q3012	B2	D2101	B2		
Q3013	B2	D2102	B2		
Q3014	D1	D2301	A2		
Q3801	A5	D2302	A2		
Q3990	A4	D2351	A6		



TR
Q901
Q902
Q903
Q904
Q906
Q908
Q909
Q335
Q335
DI
D351
D352
D361
D362
D371
D372
D373
D374
D375
D387
D901
D902
D903
D910
D911
D335
D335
D335
D335
T
TPY1
TPY2
TPY3
TPK
TPK
TPK
I.
IC351
IC361
IC371
IC381

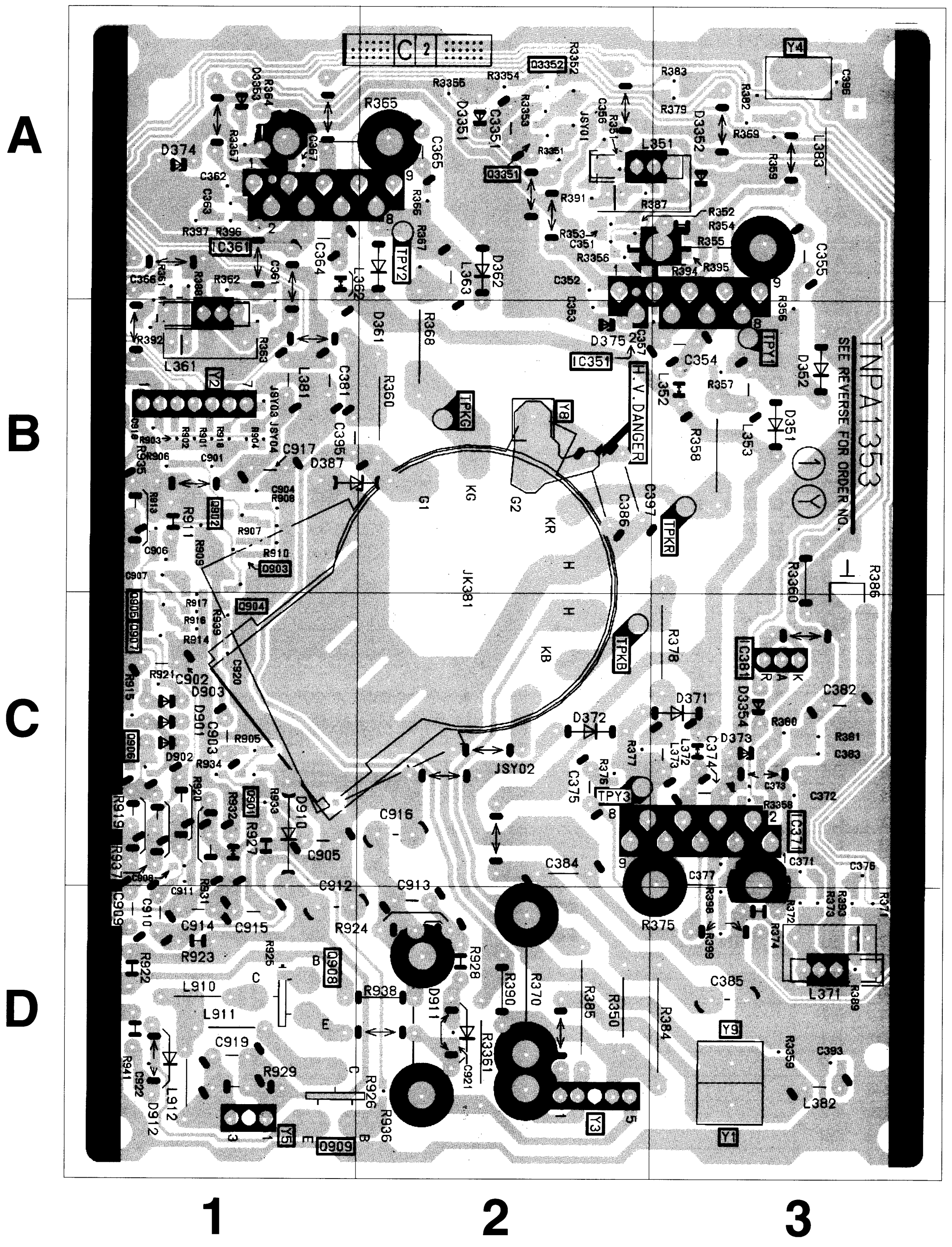
CONDUCTOR VIEWS ANSICHT DER LEITERBAHNEN

E - BOARD TNPH0176


TNPH0176
E ②
3
4
5
6
7

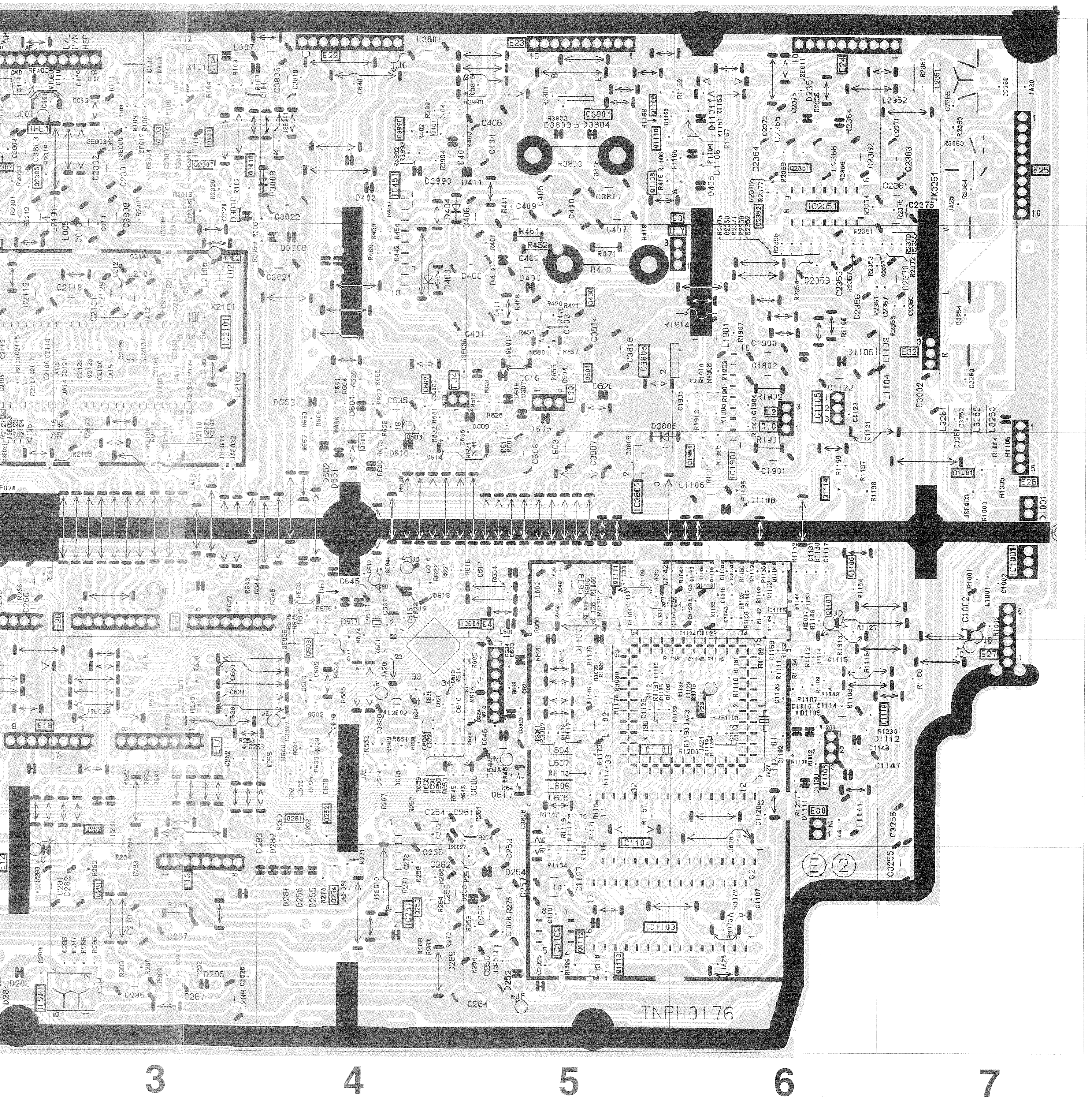
Y - BOARD TNPA1353

TRAN'S	
Q901	C1
Q902	B1
Q903	B1
Q904	C1
Q906	C1
Q908	D1
Q909	D1
Q3351	A2
Q3352	A2
DIODE'S	
D351	B3
D352	B3
D361	A2
D362	A2
D371	C3
D372	C2
D373	C3
D374	A1
D375	B2
D387	B1
D901	C1
D902	C1
D903	C1
D910	C1
D911	D2
D3351	A2
D3352	A3
D3353	A1
D3354	C3
T.P.'S	
TPY1	B3
TPY2	A2
TPY3	C2
TPKR	B3
TPKG	B2
TPKB	C2
I.C.'S	
IC351	B2
IC361	A1
IC371	C3
IC381	C3


A
B
C
D
1
2
3
TNPA1353
SEE REVERSE FOR ORDER NO.
① Y
H.V. DANGER
JK361

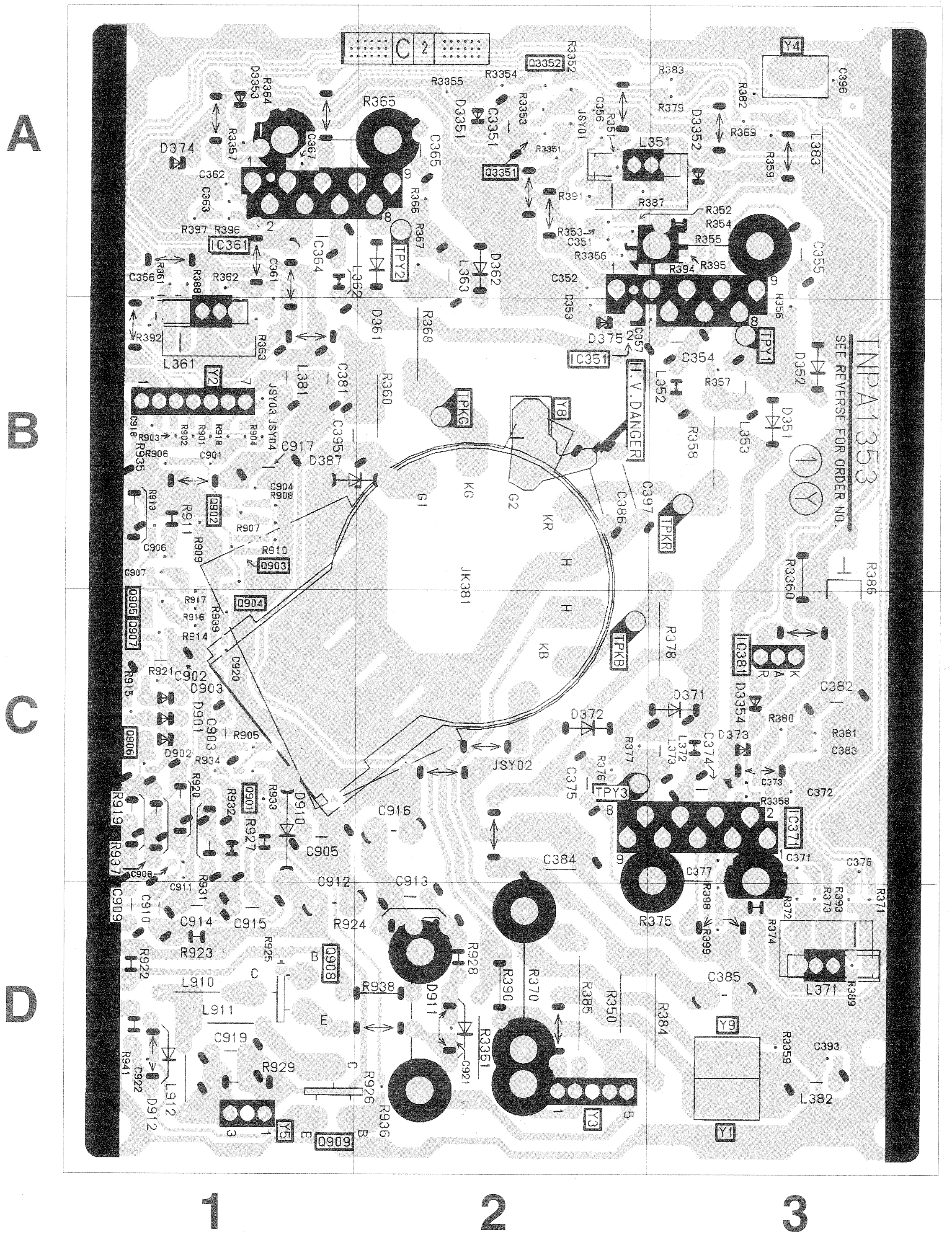
CONDUCTOR VIEWS ANSICHT DER LEITERBAHNEN

E - BOARD TNPH0176


TNPH0176
E ②
3
4
5
6
7

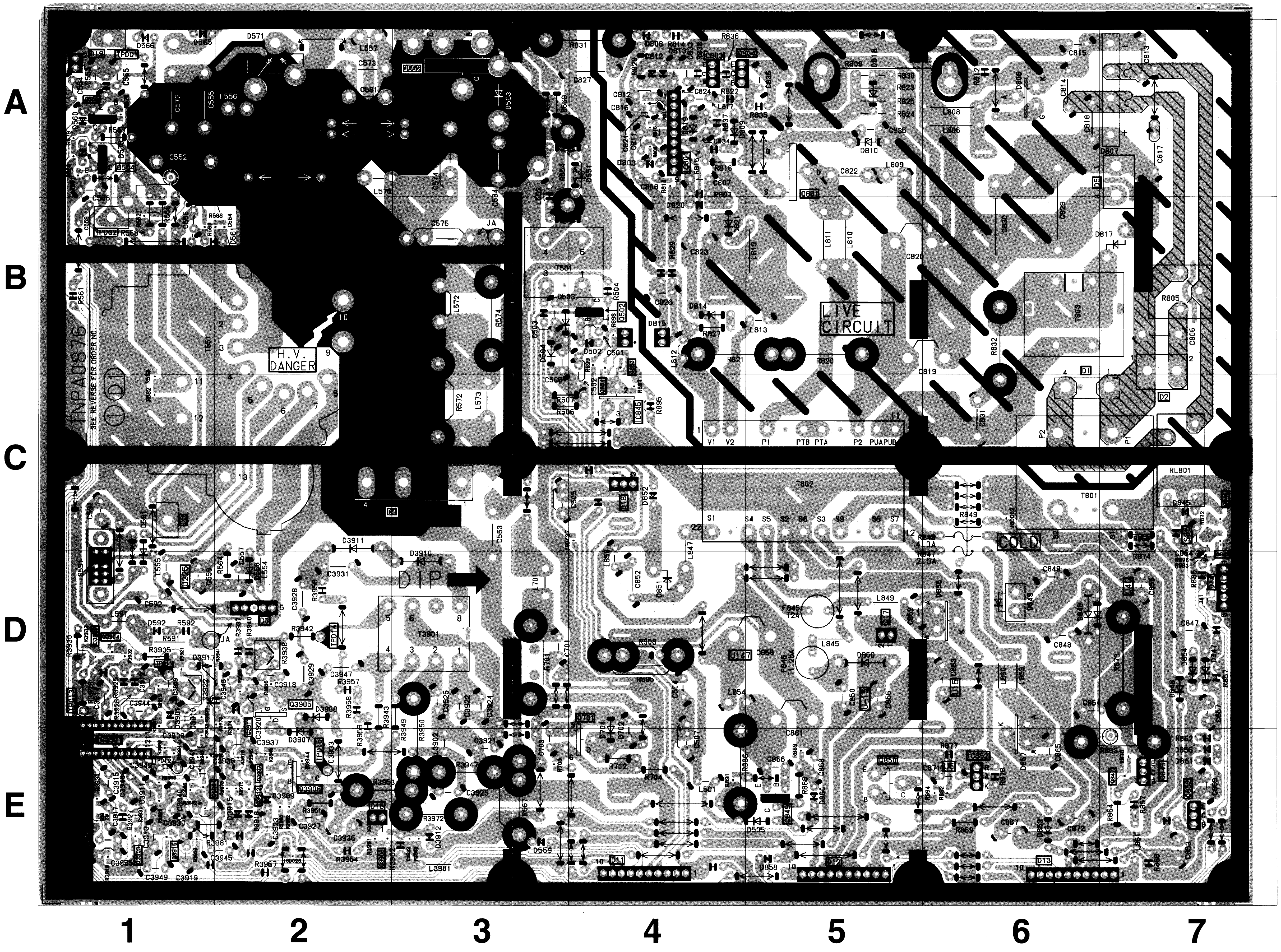
Y - BOARD TNPA1353

TRAN'S	
Q901	C1
Q902	B1
Q903	B1
Q904	C1
Q906	C1
Q908	D1
Q909	D1
Q3351	A2
Q3352	A2
DIODE'S	
D351	B3
D352	B3
D361	A2
D362	A2
D371	C3
D372	C2
D373	C3
D374	A1
D375	B2
D387	B1
D901	C1
D902	C1
D903	C1
D910	C1
D911	D2
D3351	A2
D3352	A3
D3353	A1
D3354	C3
T.P.'S	
TPY1	B3
TPY2	A2
TPY3	C2
TPKR	B3
TPKG	B2
TPKB	C2
I.C.'S	
IC351	B2
IC361	A1
IC371	C3
IC381	C3


A
B
C
D
1
2
3
TNPA1353
SEE REVERSE FOR ORDER NO.
① Y
H.V. DANGER
JK381
TPY1
TPY2
TPY3
TPKR
TPKG
TPKB
IC351
IC361
IC371
IC381

D - BOARD TNPA0876

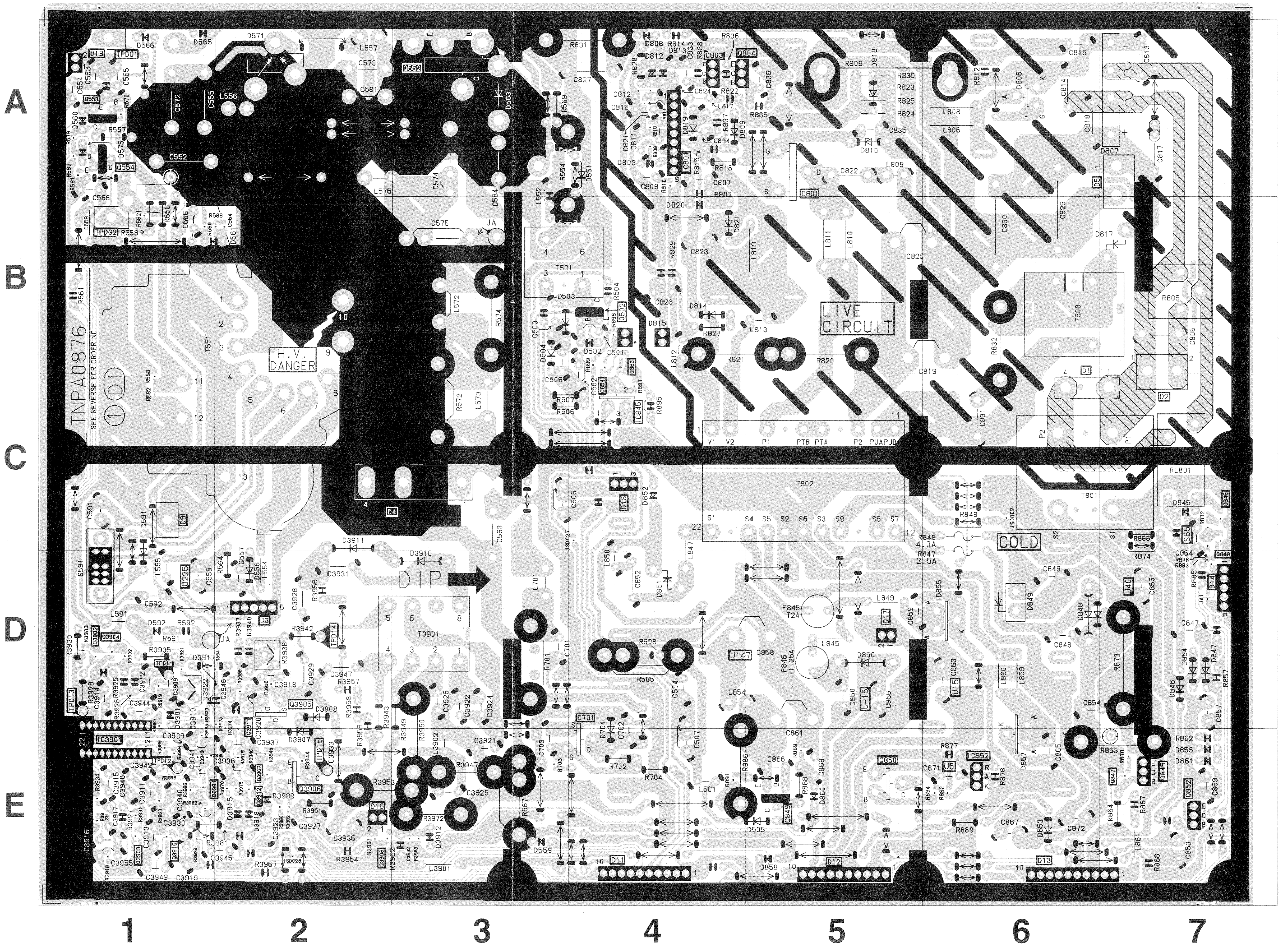
DIODE'S		TRAN'S	
D391	D1	Q502	B4
D502	B4	Q552	A3
D503	B3	Q553	A1
D504	B3	Q554	A1
D505	E4	Q701	D4
D556	D2	Q801	B5
D559	E3	Q803	A4
D560	A1	Q804	A4
D561	B2	Q845	E7
D563	A3	Q846	C7
D565	A1	Q847	E7
D566	A1	Q848	D7
D571	A2	Q849	E5
D575	A1	Q850	E5
D591	C1	Q852	E7
D592	D1	Q854	C4
D701	D4	Q3901	E2
D807	A6	Q3902	D1
D808	A4	Q3903	E1
D809	A4	Q3904	D1
D810	A5	Q3905	D2
D812	A4	Q3906	E2
D813	A4	Q3907	E2
D814	B4	Q3908	E2
D815	B4	Q3911	D2
D817	B6	Q3912	E2
D818	A5	Q3916	E1
D819	A4		
D820	B4	T.P.'S	
D821	B4	TPDG1	A1
D845	C7	TPDG2	B1
D846	D7	TPDG11	D1
D847	D7	TPDG12	E1
D848	D6	TPDG13	D1
D849	D6	TPDG14	D2
D851	D4	TPDG15	E2
D852	C4		
D853	E6	I.C.'S	
D854	D7	IC801	A4
D855	D6	IC845	C4
D856	E7	IC852	E6
D857	E6	IC3901	E1
D858	E5		
D860	E5		
D861	E7		
D3901	D1		
D3907	D2		
D3908	D2		
D3909	E2		
D3910	D3		
D3911	C2		
D3912	E3		
D3915	E2		
D3918	E2		


A
B
C
D
E
1
2
3
4
5
6
7
TNPA0876
SEE REVERSE FOR ORDER NO.
H.V. DANGER
LIVE CIRCUIT
COLD
DIP
T551
T501
T802
T801
T803
T3901
RLB01

TRAN'S	
Q2401	A2
Q2407	A3
Q2408	A3
Q2409	A3
Q2410	A3
Q2411	A3
Q2412	A3
Q3401	B1
Q3402	C1
Q3403	B1
Q3404	C1
Q3405	C3
Q3406	C3
DIODE'S	
D2401	A2
D2403	A3
D2404	A3
D2405	A3
D2406	A3
D2407	A3
D2408	A3
D3401	C3
D3402	C3
T.P.'S	
TPH1	D1
TPH2	A2
TPH3	D1
TPH004	D1
TPH005	D1
I.C.'S	
IC2401	A2
IC2402	A3

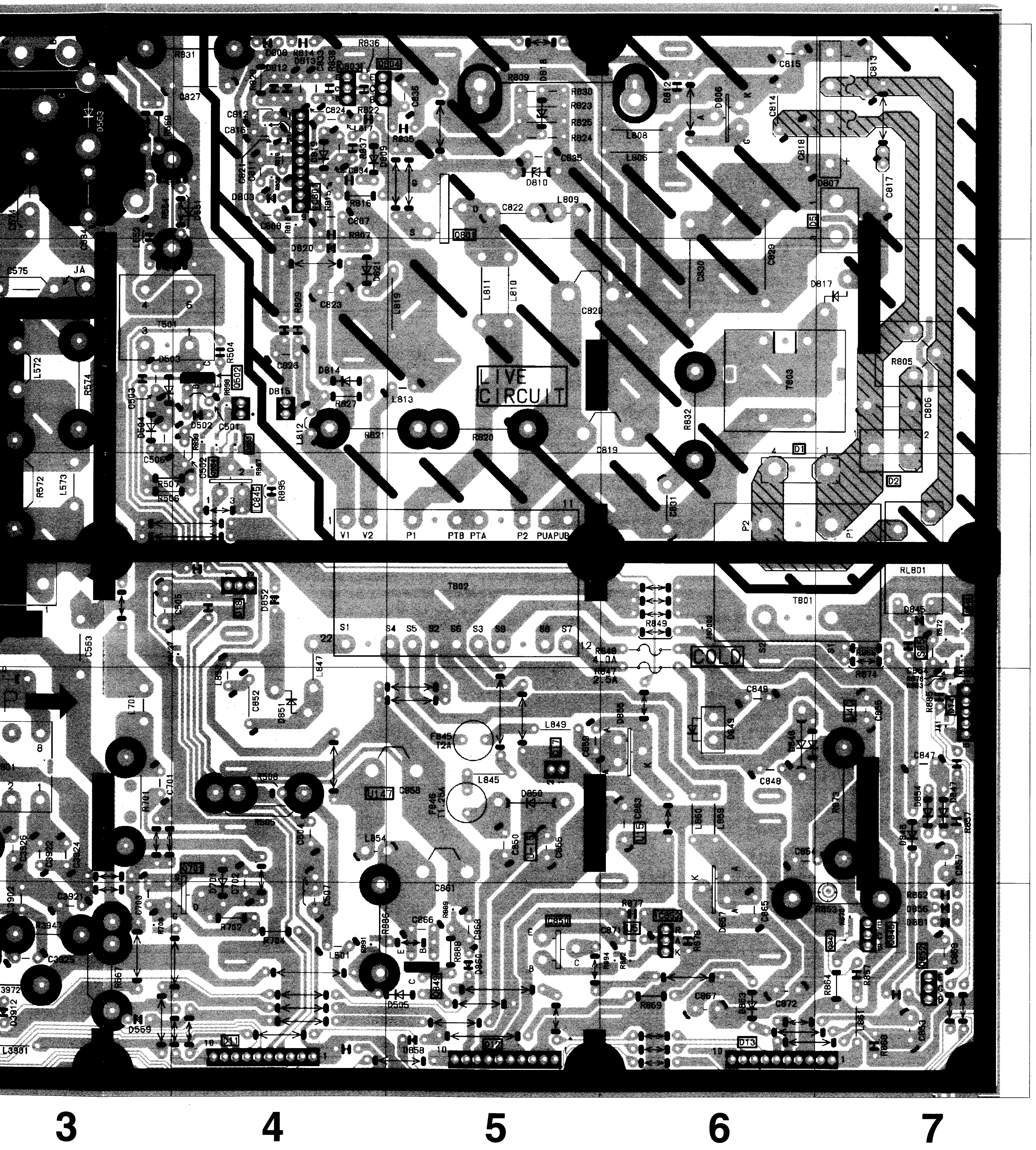
D - BOARD TNPA0876

DIODE'S		TRAN'S	
D391	D1	Q502	B4
D502	B4	Q552	A3
D503	B3	Q553	A1
D504	B3	Q554	A1
D505	E4	Q701	D4
D556	D2	Q801	B5
D559	E3	Q803	A4
D560	A1	Q804	A4
D561	B2	Q845	E7
D563	A3	Q846	C7
D565	A1	Q847	E7
D566	A1	Q848	D7
D571	A2	Q849	E5
D575	A1	Q850	E5
D591	C1	Q852	E7
D592	D1	Q854	C4
D701	D4	Q3901	E2
D807	A6	Q3902	D1
D808	A4	Q3903	E1
D809	A4	Q3904	D1
D810	A5	Q3905	D2
D812	A4	Q3906	E2
D813	A4	Q3907	E2
D814	B4	Q3908	E2
D815	B4	Q3911	D2
D817	B6	Q3912	E2
D818	A5	Q3916	E1
D819	A4		
D820	B4	T.P.'S	
D821	B4	TPDG1	A1
D845	C7	TPDG2	B1
D846	D7	TPDG11	D1
D847	D7	TPDG12	E1
D848	D6	TPDG13	D1
D849	D6	TPDG14	D2
D851	D4	TPDG15	E2
D852	C4		
D853	E6	I.C.'S	
D854	D7	IC801	A4
D855	D6	IC845	C4
D856	E7	IC852	E6
D857	E6	IC3901	E1
D858	E5		
D860	E5		
D861	E7		
D3901	D1		
D3907	D2		
D3908	D2		
D3909	E2		
D3910	D3		
D3911	C2		
D3912	E3		
D3915	E2		
D3918	E2		


A
B
C
D
E
1
2
3
4
5
6
7
TNPA0876
SEE REVERSE FOR ORDER NO.
H.V. DANGER
LIVE CIRCUIT
COLD
DIP
F845 T2A
F846 T1.25A
R848 4.3A
R847 2.5A
T551
T501
T802
T801
T803
T3901
RL801

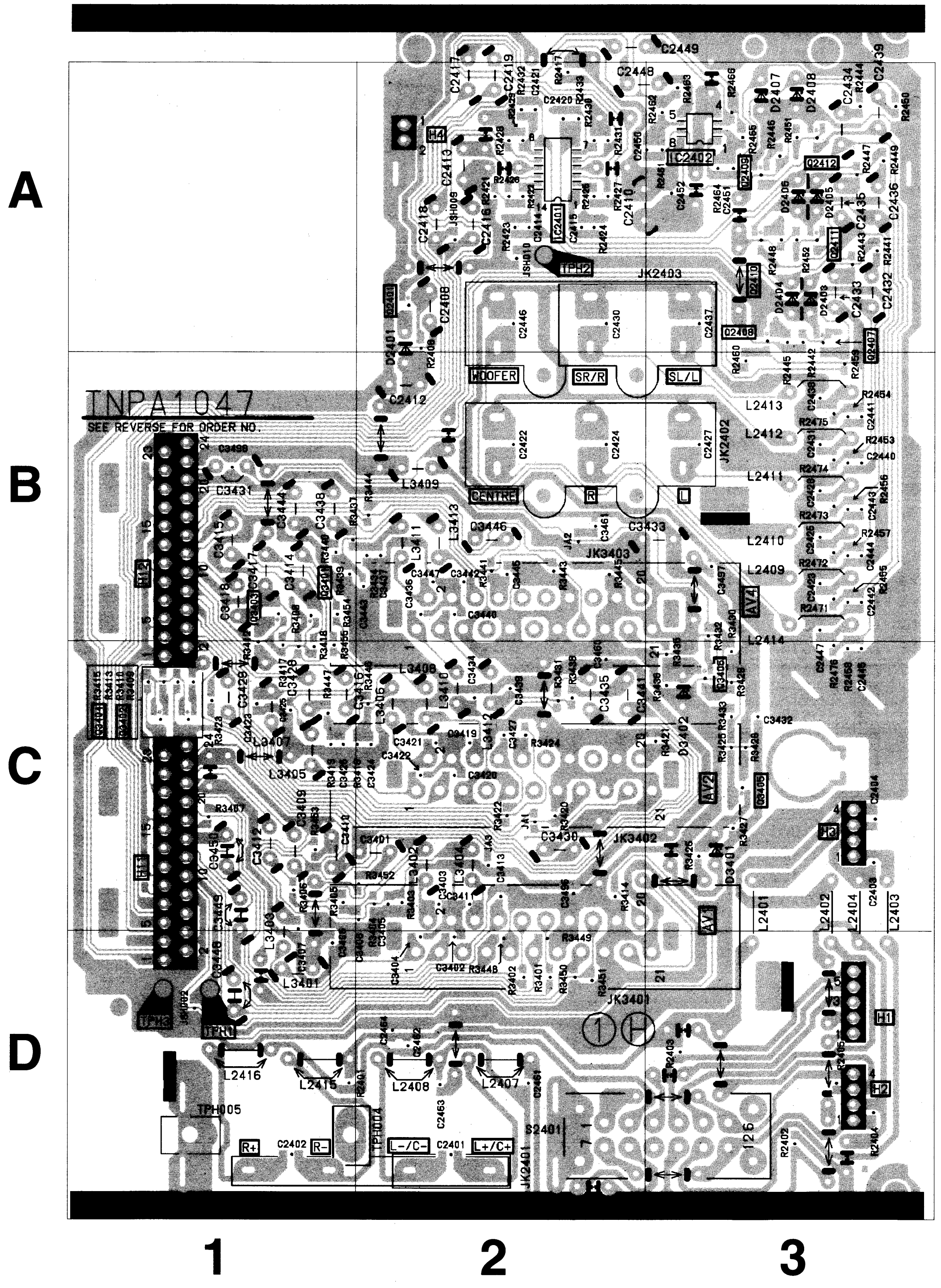
TRAN'S	
Q2401	A2
Q2407	A3
Q2408	A3
Q2409	A3
Q2410	A3
Q2411	A3
Q2412	A3
Q3401	B1
Q3402	C1
Q3403	B1
Q3404	C1
Q3405	C3
Q3406	C3
DIODE'S	
D2401	A2
D2403	A3
D2404	A3
D2405	A3
D2406	A3
D2407	A3
D2408	A3
D3401	C3
D3402	C3
T.P.'S	
TPH1	D1
TPH2	A2
TPH3	D1
TPH004	D1
TPH005	D1
I.C.'S	
IC2401	A2
IC2402	A3

D - BOARD TNPA0876

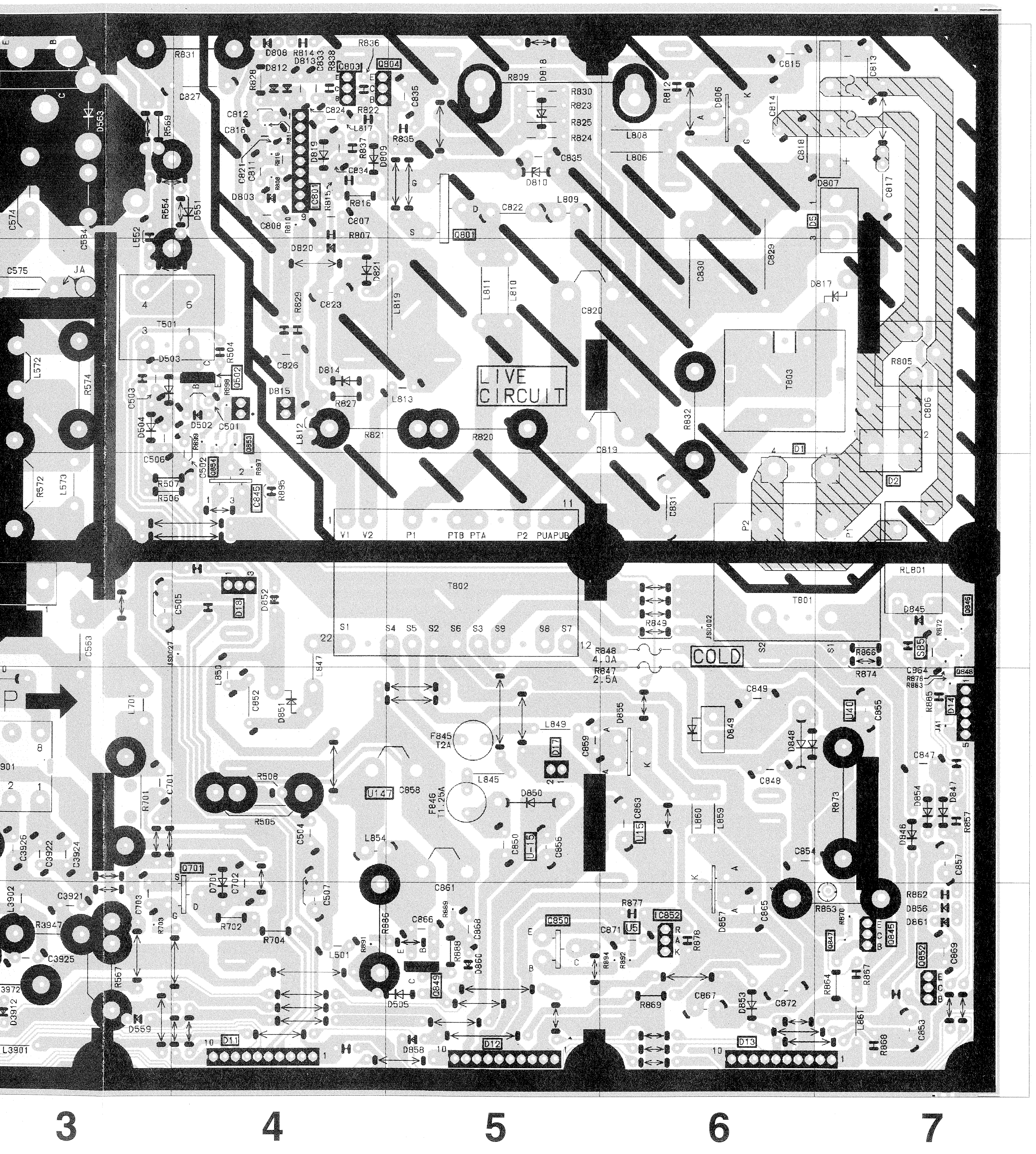

LIVE CIRCUIT
COLD
T801
T802
T803
RL801
V1
V2
P1
PTB
PTA
P2
PUAPUB
3
4
5
6
7

H - BOARD TNPA1047

TRAN'S	
Q2401	A2
Q2407	A3
Q2408	A3
Q2409	A3
Q2410	A3
Q2411	A3
Q2412	A3
Q3401	B1
Q3402	C1
Q3403	B1
Q3404	C1
Q3405	C3
Q3406	C3
DIODE'S	
D2401	A2
D2403	A3
D2404	A3
D2405	A3
D2406	A3
D2407	A3
D2408	A3
D3401	C3
D3402	C3
T.P.'S	
TPH1	D1
TPH2	A2
TPH3	D1
TPH004	D1
TPH005	D1
I.C.'S	
IC2401	A2
IC2402	A3


A
B
C
D
1
2
3
TNPA1047
SEE REVERSE FOR ORDER NO.
WOOFER
SR/R
SL/L
CENTRE
R
L
JK2403
JK2402
JK3403
JK3402
JK3401
JK2401
IC2401
IC2402
TPH1
TPH2
TPH3
TPH004
TPH005
S2401
R+
R-
L-/C-
L+/C+
H1
H2
AV1
AV2
AV3

D - BOARD TNPA0876


LIVE CIRCUIT
COLD
3
4
5
6
7

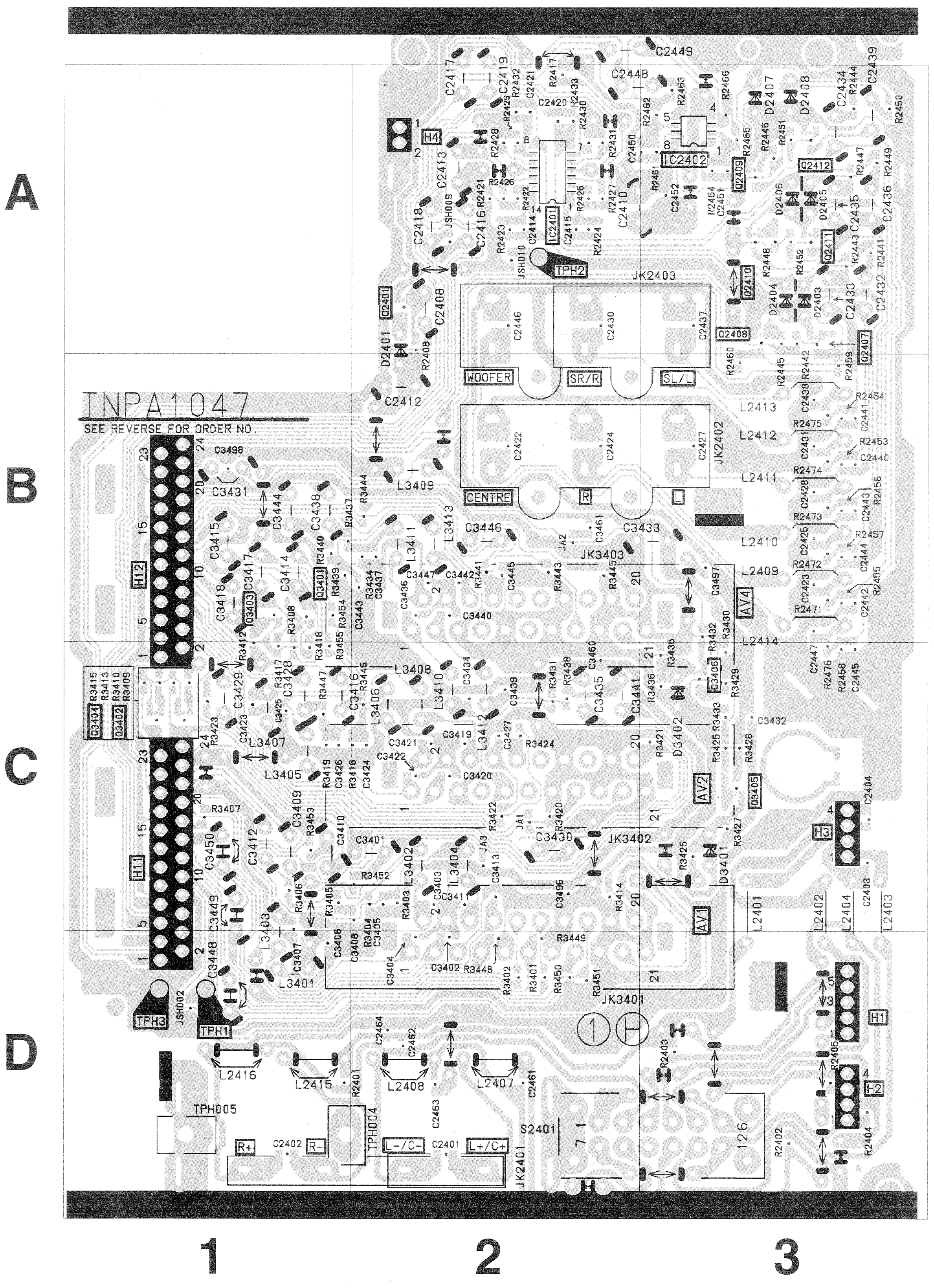
TRAN'S	
Q2401	A2
Q2407	A3
Q2408	A3
Q2409	A3
Q2410	A3
Q2411	A3
Q2412	A3
Q3401	B1
Q3402	C1
Q3403	B1
Q3404	C1
Q3405	C3
Q3406	C3

DIODE'S	
D2401	A2
D2403	A3
D2404	A3
D2405	A3
D2406	A3
D2407	A3
D2408	A3
D3401	C3
D3402	C3

T.P.'S	
TPH1	D1
TPH2	A2
TPH3	D1
TPH004	D1
TPH005	D1

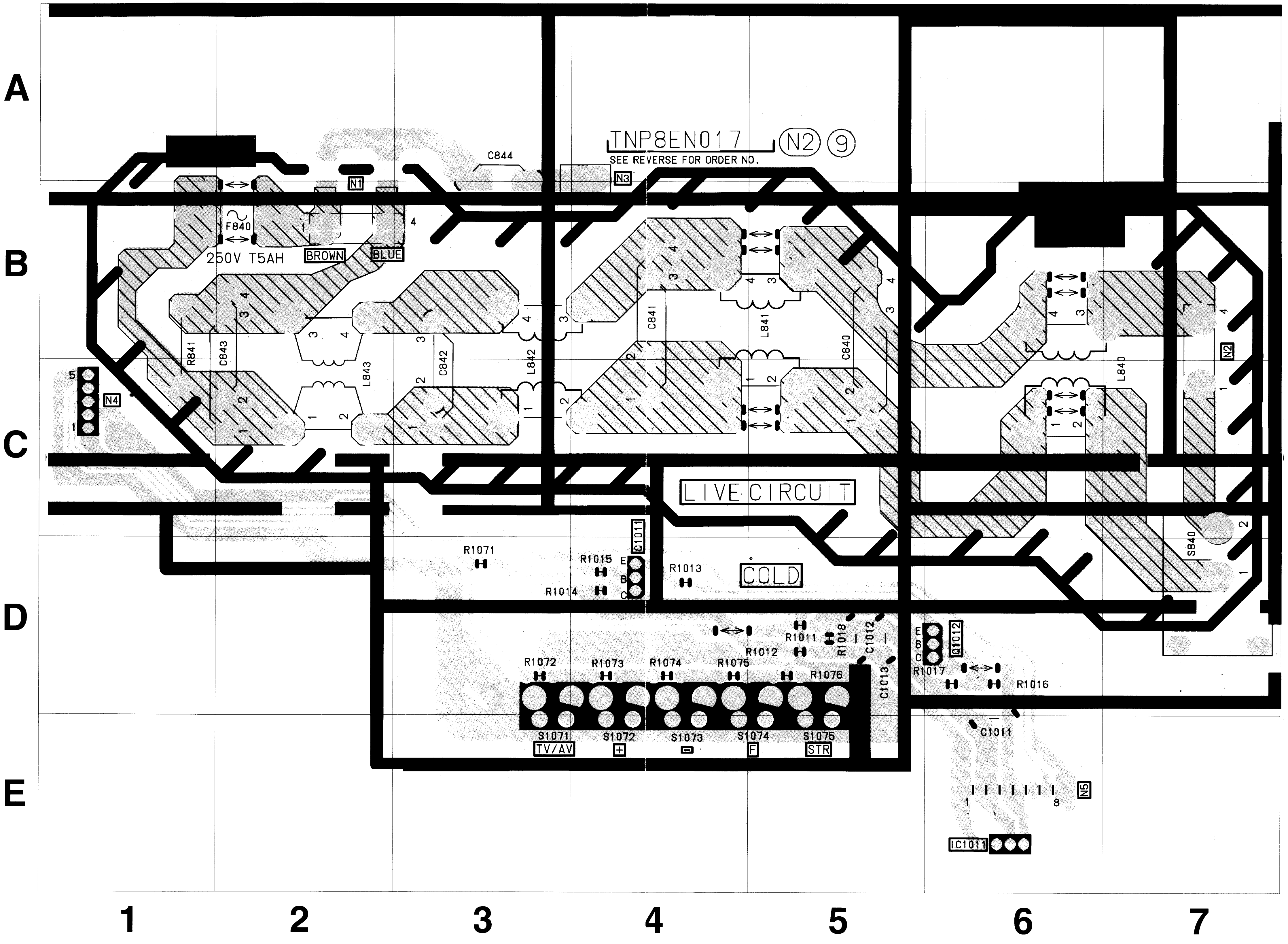
I.C.'S	
IC2401	A2
IC2402	A3

H - BOARD TNPA1047


TNPA1047
SEE REVERSE FOR ORDER NO.
WOOFER
SR/R
SL/L
CENTRE
R
L
AV4
AV2
AV1
JK2403
JK2402
JK3403
JK3402
JK3401
JK2401
S2401
TPH1
TPH2
TPH3
TPH004
TPH005
H1
H2
H3
H4
H11
H12
A
B
C
D
1
2
3

N - BOARD TNP8EN017

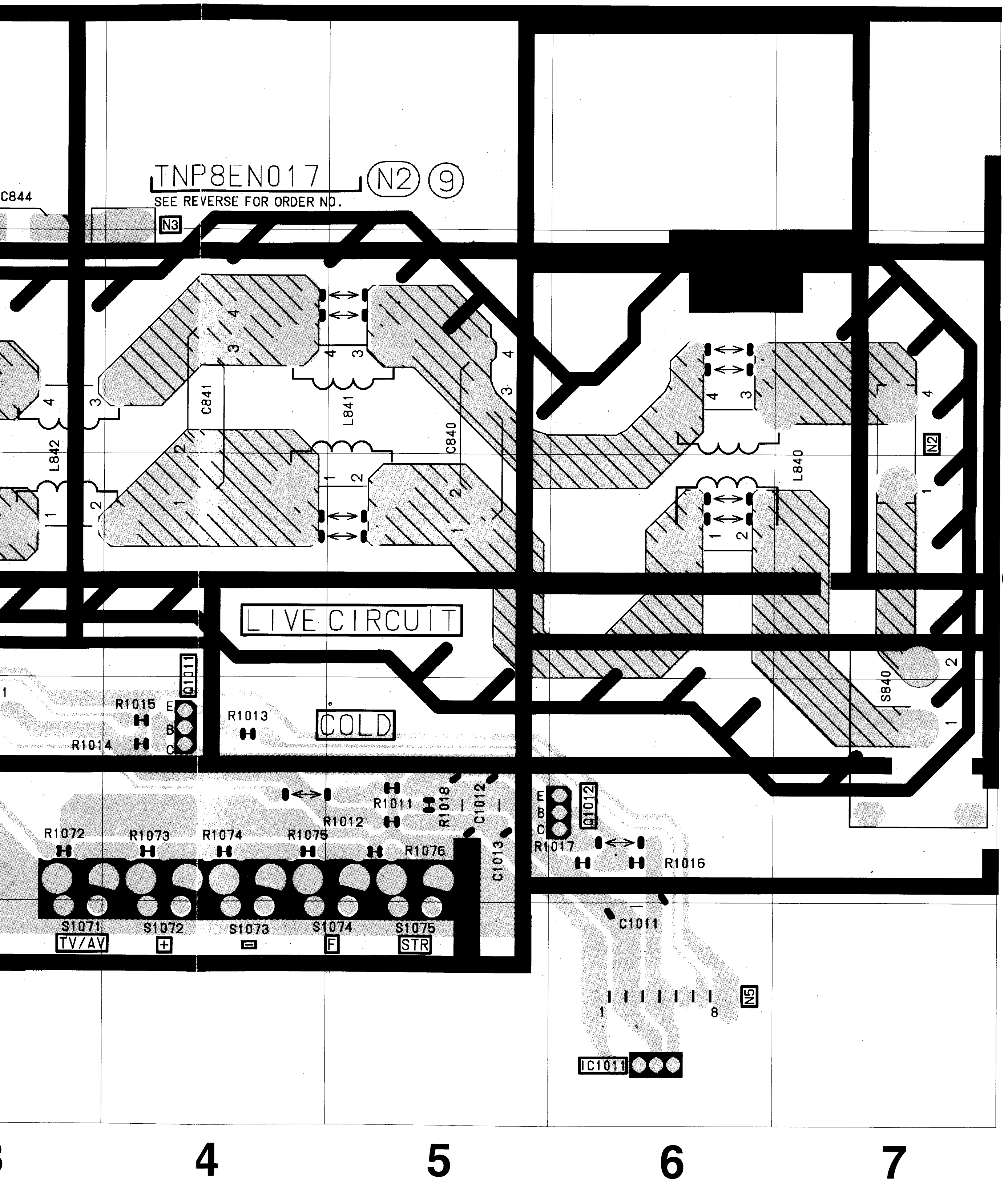
TRAN'S	
Q1011	D4
Q1012	D6
I.C.'S	
IC1011	E6



A
B
C
D
E
1
2
3
4
5
6
7
TNP8EN017
N2
9
SEE REVERSE FOR ORDER NO.
C844
N1
N3
F840
250V T5AH
BROWN
BLUE
R841
C843
L843
C842
L842
C841
L841
C840
L840
N2
N4
LIVE CIRCUIT
COLD
S840
Q1011
R1071
R1015
R1014
R1013
R1011
R1012
R1018
C1012
C1013
Q1012
R1017
R1016
R1072
R1073
R1074
R1075
R1076
S1071
TV/AV
S1072
+
S1073
−
S1074
F
S1075
STR
C1011
N5
IC1011

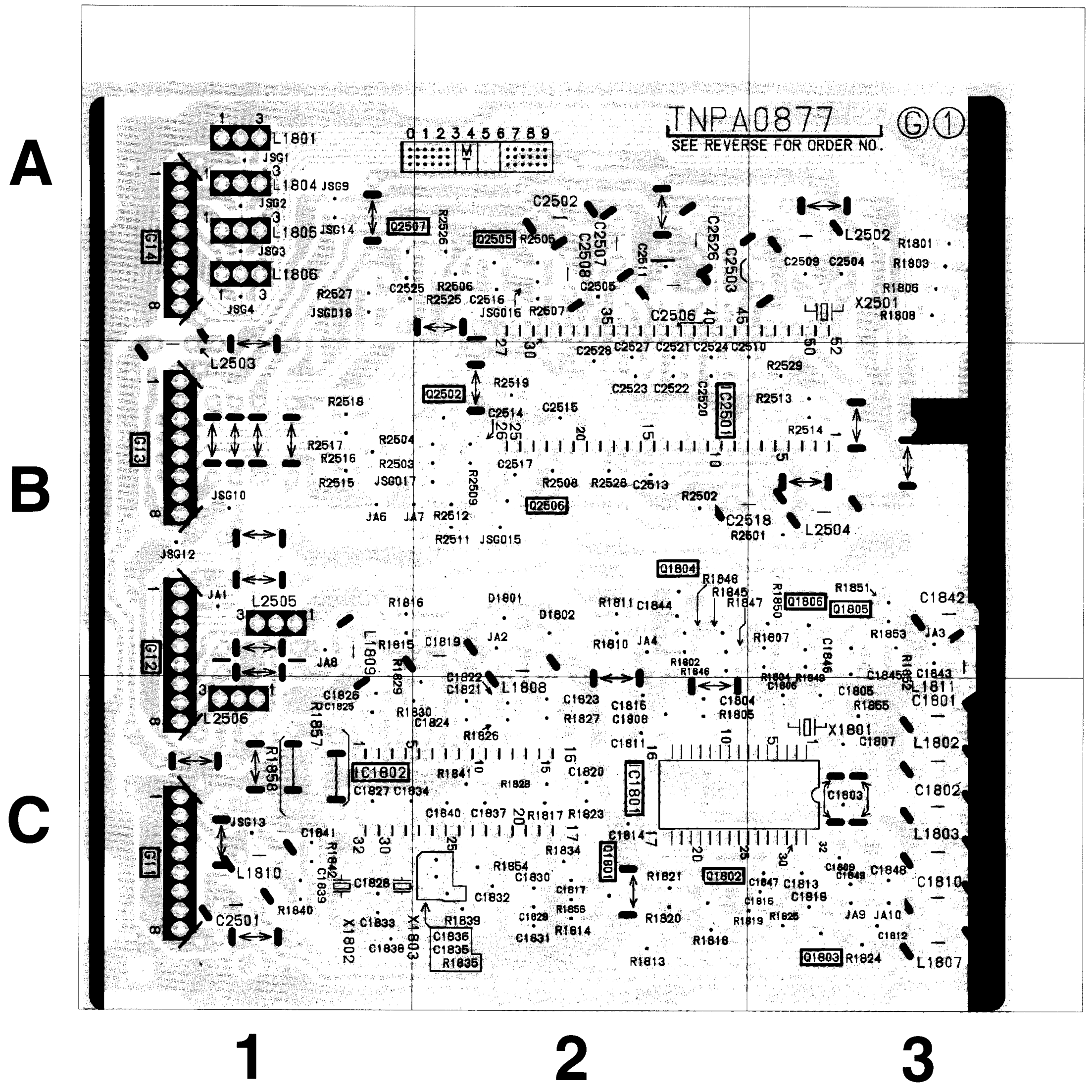
TRAN'S	
Q1801	C2
Q1802	C2
Q1803	C3
Q1804	B2
Q1805	B3
Q1806	B3
Q2502	B2
Q2505	A2
Q2506	B2
Q2507	A1
I.C.'S	
IC1801	C2
IC1802	C1
IC2501	B2
DIODE'S	
D1801	B2
D1802	B2

N - BOARD TNP8EN017


TNP8EN017
N2
9
SEE REVERSE FOR ORDER NO.
N3
LIVE CIRCUIT
COLD
C844
C841
L841
C840
L842
L840
S840
N2
Q1011
R1015
R1014
R1013
Q1012
R1017
R1016
R1011
R1012
R1018
C1012
C1013
C1011
R1072
R1073
R1074
R1075
R1076
S1071
TV/AV
S1072
S1073
S1074
S1075
STR
N5
IC1011
4
5
6
7

G - BOARD TNPA0877

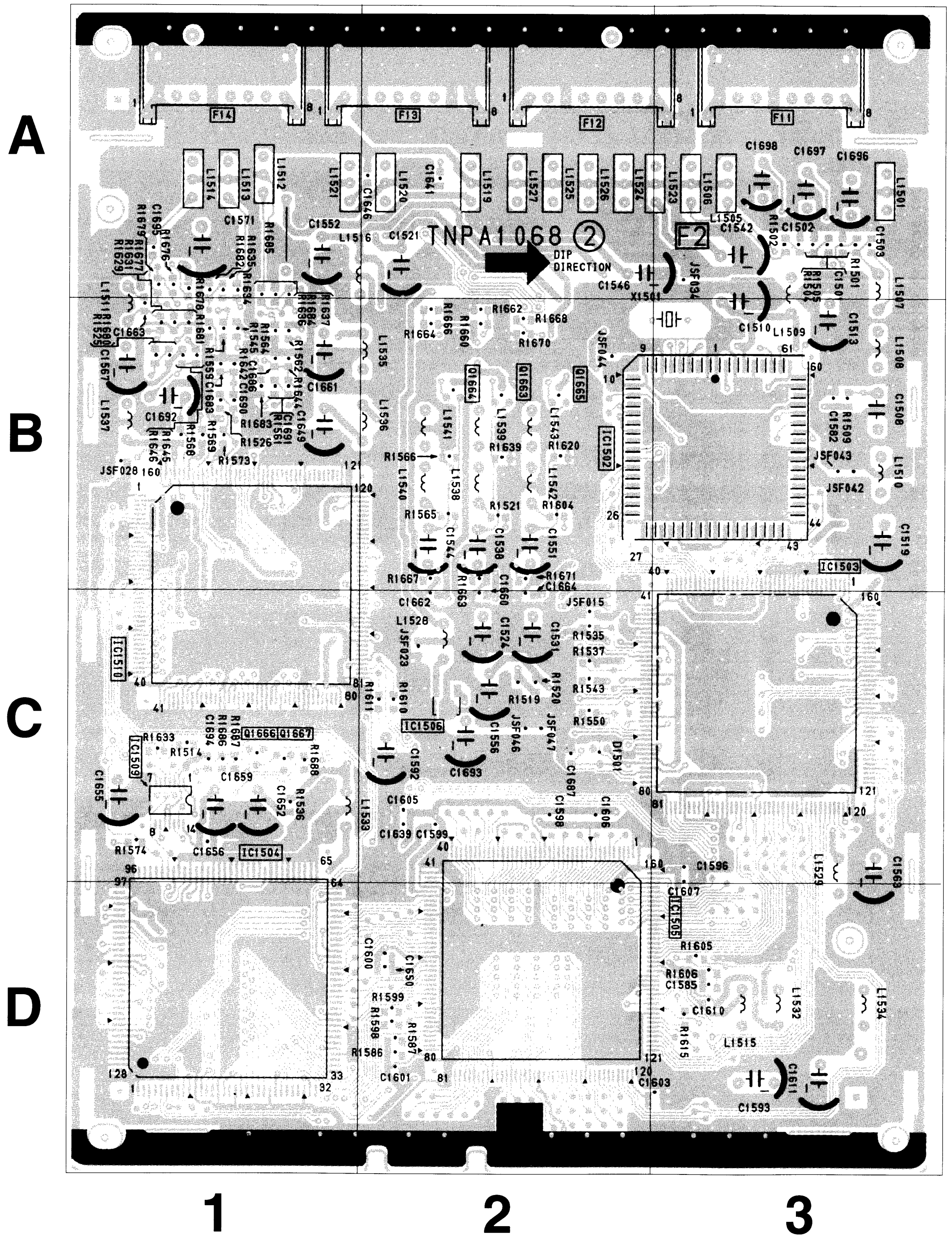
TRAN'S	
Q1801	C2
Q1802	C2
Q1803	C3
Q1804	B2
Q1805	B3
Q1806	B3
Q2502	B2
Q2505	A2
Q2506	B2
Q2507	A1
I.C.'S	
IC1801	C2
IC1802	C1
IC2501	B2
DIODE'S	
D1801	B2
D1802	B2


TNPA0877
G1
SEE REVERSE FOR ORDER NO.
A
B
C
1
2
3
G14
G13
G12
G11
L1801
L1804
L1805
L1806
L2503
L2505
L2506
L1810
C2501
Q2507
Q2505
Q2502
Q2506
IC2501
Q1804
Q1806
Q1805
IC1802
IC1801
Q1802
Q1803
X2501
X1801
X1802
X1803
L2502
L2504
L1808
L1809
L1811
L1802
L1803
L1807
D1801
D1802

F - BOARD TNPA1068

TRAN'S	
Q1663	B2
Q1664	B2
Q1665	B2
Q1666	C1
Q1667	C1

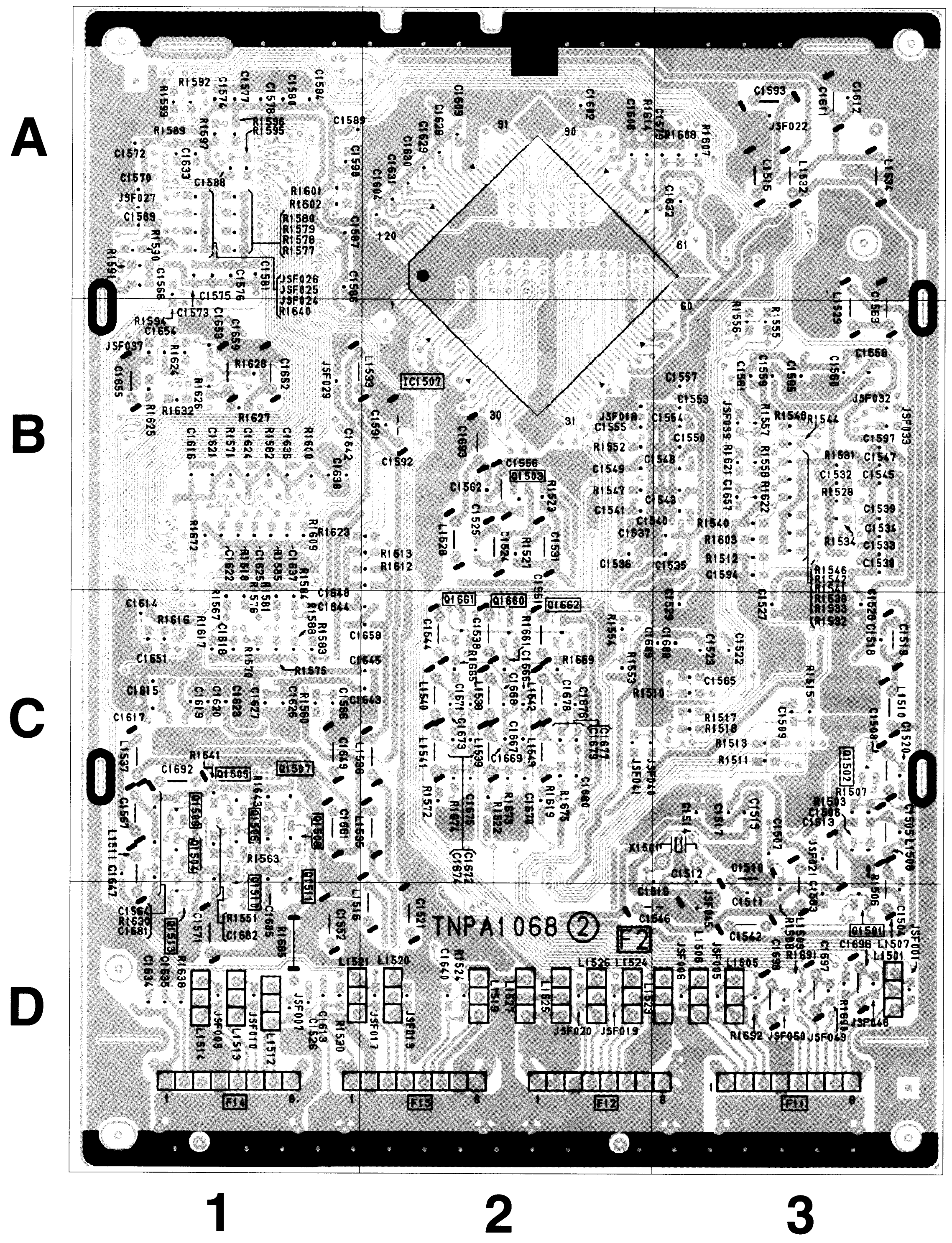
I.C.'S	
IC1502	B3
IC1503	C3
IC1504	D1
IC1505	D2
IC1506	C2
IC1509	C1
IC1510	C1


A
B
C
D
1
2
3
F14
F13
F12
F11
TNPA1068 ②
F2
DIP DIRECTION

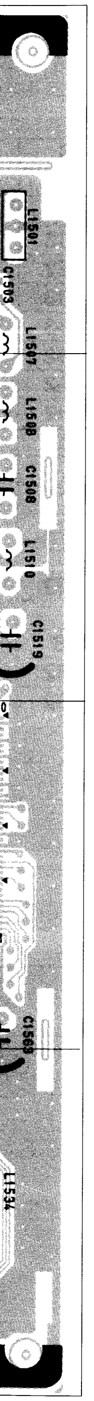
F - BOARD TNPA1068

TRAN'S	
Q1501	D3
Q1502	C3
Q1503	B2
Q1504	C1
Q1505	C1
Q1506	C1
Q1507	C1
Q1508	C1
Q1509	C1
Q1510	D1
Q1511	D1
Q1519	D1
Q1660	C2
Q1661	C2
Q1662	C2

I.C.'S	
IC1507	B2


A
B
C
D
1
2
3
TNPA1068 ②
F2
F14
F13
F12
F11

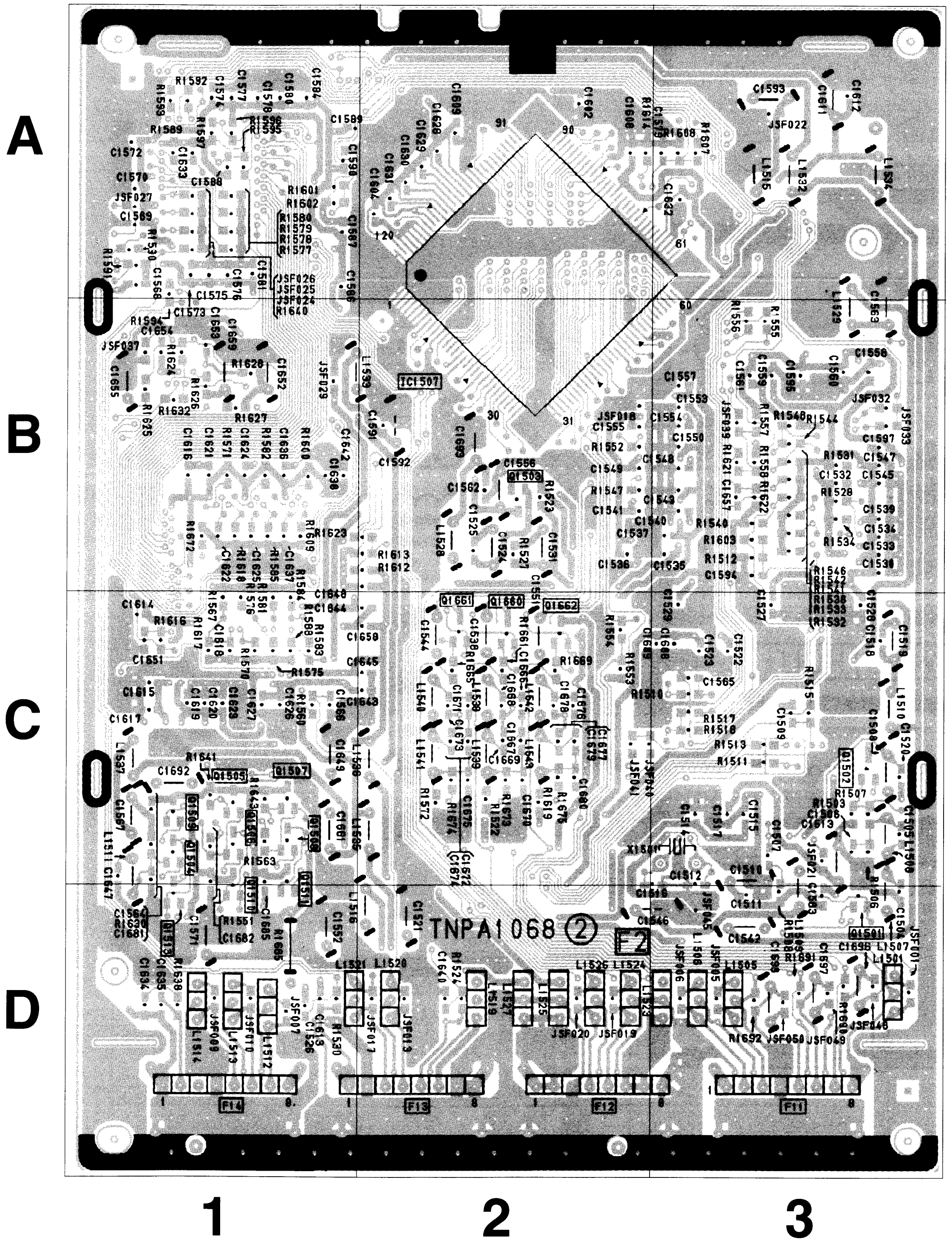
DIODE'S	
D1012	A1
D1013	A1
D1014	B1
D1015	B1
D1016	B1
D1017	B1



F - BOARD TNPA1068

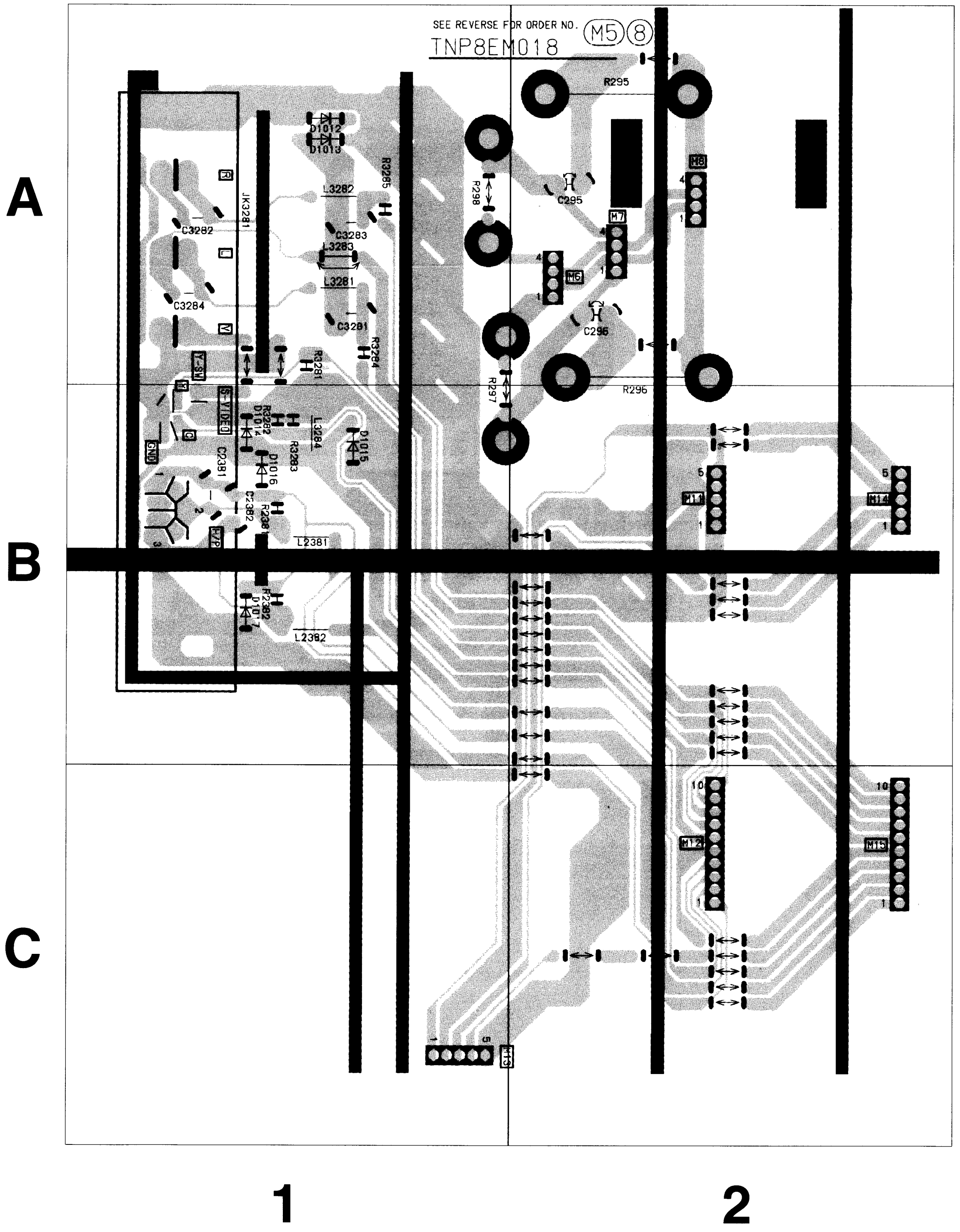
TRAN'S	
Q1501	D3
Q1502	C3
Q1503	B2
Q1504	C1
Q1505	C1
Q1506	C1
Q1507	C1
Q1508	C1
Q1509	C1
Q1510	D1
Q1511	D1
Q1519	D1
Q1660	C2
Q1661	C2
Q1662	C2

I.C.'S	
IC1507	B2


A
B
C
D
1
2
3
TNPA1068 ②
F2
F11
F12
F13
F14

M - BOARD TNP8EM018

DIODE'S	
D1012	A1
D1013	A1
D1014	B1
D1015	B1
D1016	B1
D1017	B1


SEE REVERSE FOR ORDER NO.
TNP8EM018
M5 8
A
B
C
1
2
R295
R296
R297
R298
C295
C296
JK3281
L3281
L3282
L3283
L3284
C3281
C3282
C3283
C3284
L2381
L2382
D1012
D1013
D1014
D1015
D1016
D1017